

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: February 17, 2006, 16:58:02 ; Search time 23 Seconds
(without alignments)
16.733 Million cell updates/sec

Title: US-10-821-256-2
Perfect score: 19
Sequence: 1 AOGV 4

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues
Total number of hits satisfying chosen parameters: 4989

Minimum DB seq length: 0
Maximum DB seq length: 25

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : PIR 80:*
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	19	100.0	12	2	H41946
2	19	100.0	20	2	S21244
3	16	84.2	23	2	S54339
4	15	78.9	11	2	PH1600
5	15	78.9	12	2	C33099
6	15	78.9	12	2	PH0920
7	15	78.9	12	2	PH1467
8	15	78.9	14	2	S23376
9	15	78.9	14	2	PH0804
10	15	78.9	14	2	A39703
11	15	78.9	15	2	PS0382
12	15	78.9	15	2	S05700
13	15	78.9	15	2	B56046
14	15	78.9	15	2	S05699
15	15	78.9	17	2	S28839
16	15	78.9	18	2	A36133
17	15	78.9	20	2	PC4385
18	15	78.9	20	2	PC4386
19	15	78.9	20	2	A42865
20	15	78.9	20	2	S48746
21	15	78.9	20	2	A40198
22	15	78.9	22	2	JN0911
23	15	78.9	22	2	A56868
24	15	78.9	22	2	A48365
25	15	78.9	25	2	A60741
26	14	73.7	15	2	I65478
27	14	73.7	15	2	PH1377
28	14	73.7	16	2	PH1346
29	14	73.7	18	2	G49037

30	14	73.7	19	2	PH1624	Ig H chain V-D-J r
31	14	73.7	20	2	S06802	outer membrane pro
32	14	73.7	21	2	S21772	lipoygenase (EC 1
33	14	73.7	21	2	PQ0257	microbial serine p
34	14	73.7	22	2	S68900	xanthine dehydroge
35	14	73.7	23	2	PK0011	glutamate-ammonia
36	14	73.7	23	2	B61079	listeriolysin O -
37	14	73.7	24	2	S53749	histone H4 - rat
38	13	68.4	4	2	PT0633	T-cell receptor be
39	13	68.4	5	2	PT0572	T-cell receptor be
40	13	68.4	8	2	A35180	neutral proteinase
41	13	68.4	12	2	PH0936	T-cell receptor be
42	13	68.4	12	2	PN0160	ribosomal protein
43	13	68.4	12	2	PQ0786	NADH2 dehydrogenas
44	13	68.4	14	2	S17766	beta-glucosidase (
45	13	68.4	14	2	PS0249	portin - rice (stra

ALIGNMENTS

RESULT 1
H41946
T-cell receptor gamma chain (St.12) - mouse (fragment)
C:Species: Mus musculus (house mouse)
C:Date: 03-Feb-1994 #sequence_revision 03-Feb-1994 #text_change 07-May-1999
C:Accession: H41946
R:Whetsell, M.; Mosley, R.L.; Whetsell, L.; Schaefer, F.V.; Miller, K.S.; Klein, J.R.
Mol. Cell. Biol. 11, 5902-5909, 1991
A:Title: Rearrangement and junctional-site sequence analyses of T-cell receptor gamma ge
A:Reference number: A41946; MUID:92049316; PMID:1658619
A:Accession: H41946
A:Status: preliminary; not compared with conceptual translation
A:Molecule type: DNA
A:Residues: 1-12 <WH>
A:Cross-references: UNIPARC:UPI000017C86B
C:Keywords: T-cell receptor

Query Match 100.0%; Score 19; DB 2; Length 12;
Best Local Similarity 100.0%; Pred. No. 47;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
DB 4 AOGV 7

RESULT 2
S21244
H+-transporting two-sector ATPase (EC 3.6.3.14) delta chain - spinach mitochondrion (Ira
C:Species: mitochondrion Spinacia oleracea (spinach)
C:Date: 19-Mar-1997 #sequence_revision 01-Aug-1997 #text_change 09-Jul-2004
C:Accession: S21244
R:Hammar, B.; Glaser, E.
Eur. J. Biochem. 205, 409-416, 1992
A:Title: Plant mitochondrial F(0)F(1) ATP synthase. Identification of the individual sub
A:Reference number: S21204; MUID:92209531; PMID:1313368
A:Accession: S21244
A:Status: preliminary
A:Molecule type: protein
A:Residues: 1-20 <HAM>
A:Cross-references: UNIPROT:P80085; UNIPARC:UPI00001262D3
C:Keywords: ATP biosynthesis; hydrolase; membrane-associated complex; mitochondrion

Query Match 100.0%; Score 19; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 78;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
DB 9 AOGV 12

RESULT 3
 S54339
 Cytochrome P450 CYP2A7A5 - human
 C/Species: Homo sapiens (man)
 C/Date: 27-Oct-1995 #sequence_revision 03-Nov-1995 #text_change 07-May-1999
 C/Accession: S54339
 R/Ding, S.; Lake, B.G.; Friedberg, T.; Wolf, C.R.
 Biochem. J. 306, 161-166, 1995
 A/Title: Expression and alternative splicing of the cytochrome P-450 CYP2A7.
 A/Reference number: S54338; MUID:95169049; PMID:7864805
 A/Accession: S54339
 A/Status: preliminary
 A/Molecule type: mRNA
 A/Residues: 1-23 <DIN>
 A/Cross-references: UNIPARC:UPI000017C0D9

Query Match 84.2%; Score 16; DB 2; Length 23;
 Best Local Similarity 75.0%; Pred. No. 6.7e+02;
 Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
 |||
 Db 12 SQGV 15

RESULT 4
 PH1600
 Ig H chain V-D-J region (wild-type clone 310) - mouse (fragment)
 C/Species: Mus musculus (house mouse)
 C/Date: 02-Jun-1994 #sequence_revision 02-Jun-1994 #text_change 17-Mar-1999
 C/Accession: PH1600
 R/Levinson, D.A.; Campos-Torres, J.; Leder, P.
 J. Exp. Med. 178, 317-329, 1993
 A/Title: Molecular characterization of transgene-induced immunodeficiency in B-lees mice
 A/Reference number: PH1580; MUID:93301609; PMID:8315387
 A/Accession: PH1600
 A/Molecule type: DNA
 A/Residues: 1-11 <LEV>
 A/Cross-references: UNIPARC:UPI000017C6BD
 A/Experimental source: Bone marrow pre-B lymphocyte
 C/Keywords: Immunoglobulin

Query Match 78.9%; Score 15; DB 2; Length 11;
 Best Local Similarity 75.0%; Pred. No. 6.5e+02;
 Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
 |||
 Db 2 ARGV 5

RESULT 5
 C33099
 148K exoantigen - malaria parasite (Plasmodium falciparum) (fragments)
 C/Species: Plasmodium falciparum
 C/Date: 24-Aug-1990 #sequence_revision 24-Aug-1990 #text_change 09-Jun-2000
 C/Accession: C33099
 R/Nichols, J.H.; Hager, L.P.
 submitted to the Protein Sequence Database, May 1990
 A/Reference number: A33098
 A/Accession: C33099
 A/Status: preliminary
 A/Molecule type: protein
 A/Residues: 1-12 <NIC>
 A/Cross-references: UNIPARC:UPI000017B5DE

Query Match 78.9%; Score 15; DB 2; Length 12;
 Best Local Similarity 100.0%; Pred. No. 7e+02;
 Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 OGV 4
 |||
 Db 3 QGV 5

RESULT 6
 PH0920
 T-cell receptor beta chain V-D-J region (isolate 6) - rat (fragment)
 C/Species: Rattus norvegicus (Norway rat)
 C/Date: 09-Oct-1992 #sequence_revision 09-Oct-1992 #text_change 30-May-1997
 C/Accession: PH0920
 R/Gold, D.P.; Offner, H.; Sun, D.; Wiley, S.; Vandenbark, A.A.; Wilson, D.B.
 J. Exp. Med. 174, 1467-1476, 1991
 A/Title: Analysis of T cell receptor beta chains in Lewis rats with experimental allergic
 A/Reference number: PH0891; MUID:92078857; PMID:1836012
 A/Accession: PH0920
 A/Molecule type: mRNA
 A/Residues: 1-12 <GOL>
 A/Cross-references: UNIPARC:UPI000017C9FA
 A/Experimental source: concanavalin A-activated lymphoblast
 A/Note: the authors translated the codon CAG for residue 12 as Glu
 C/Keywords: T-cell receptor

Query Match 78.9%; Score 15; DB 2; Length 12;
 Best Local Similarity 100.0%; Pred. No. 7e+02;
 Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOG 3
 |||
 Db 5 AOG 7

RESULT 7
 PH1467
 T-cell receptor beta chain (clone 223/27) - mouse (fragment)
 C/Species: Mus musculus (house mouse)
 C/Date: 10-Mar-1994 #sequence_revision 10-Mar-1994 #text_change 15-Mar-2004
 C/Accession: PH1467
 R/Casanova, J.L.; Martinon, F.; Gournier, H.; Barra, C.; Panretler, C.; Regnault, A.; Kou
 J. Exp. Med. 177, 811-820, 1993
 A/Title: T cell receptor selection by and recognition of two class I major histocompatibility
 A/Reference number: PH1430; MUID:93111821; PMID:8436911
 A/Accession: PH1467
 A/Molecule type: mRNA
 A/Residues: 1-12 <CAS>
 A/Cross-references: UNIPARC:UPI000017C794
 A/Experimental source: cytolytic T-lymphocyte
 C/Keywords: receptor; T-cell

Query Match 78.9%; Score 15; DB 2; Length 12;
 Best Local Similarity 100.0%; Pred. No. 7e+02;
 Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 OGV 4
 |||
 Db 7 QGV 9

RESULT 8
 S23376
 collagen alpha chain - polychaete (Alvinella pompejana) (fragment)
 C/Species: Alvinella pompejana
 C/Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 29-May-1998
 C/Accession: S23376
 R/Gaill, F.; Wiedemann, H.; Mann, K.; Kuehn, K.; Timpl, R.; Engel, J.
 J. Mol. Biol. 221, 209-223, 1991
 A/Title: Molecular characterization of cuticle and interstitial collagens from worms col
 A/Reference number: S17581; MUID:92015209; PMID:1920405
 A/Accession: S23376
 A/Molecule type: protein
 A/Residues: 1-14 <GAI>
 A/Cross-references: UNIPARC:UPI000017BD70

Query Match 78.9%; Score 15; DB 2; Length 14;
 Best Local Similarity 100.0%; Pred. No. 8.2e+02;
 Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOG 3
DB 3 AOG 5

RESULT 9

PH0804
T-cell receptor alpha chain (L4) - mouse (fragment)
C/Species: Mus musculus (house mouse)
C/Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-May-1997
C/Accession: PH0804
R/Casanova, J.L.; Romero, P.; Widmann, C.; Kourilsky, P.; Maryanski, J.L.
J. Exp. Med. 174, 1371-1383, 1991
A/Title: T cell receptor genes in a series of class I major histocompatibility complex-II allelic exclusion and antigen-specific repertoire.
A/Reference number: PH0746; MUID:92078846; PMID:1836010
A/Accession: PH0804
A/Molecule type: mRNA
A/Residues: 1-14 <CAS>
A/Cross-references: UNIPARC:UPI000017C77A; EMBL:X60913
A/Experimental source: T lymphocyte
C/Keywords: T-cell receptor

Query Match 78.9%; Score 15; DB 2; Length 14;
Best Local Similarity 100.0%; Pred. No. 8.2e+02;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOG 3
DB 5 AOG 7

RESULT 10

A39703
tubulin beta-3 chain - bovine (fragment)
C/Species: Bos primigenius taurus (cattle)
C/Date: 08-Nov-1991 #sequence_revision 08-Nov-1991 #text_change 09-Jul-2004
C/Accession: A39703
R/Alexander, J.E.; Hunt, D.F.; Lee, M.K.; Shabanowitz, J.; Michel, H.; Berlin, S.C.; Mac
Proc. Natl. Acad. Sci. U.S.A. 88, 4685-4689, 1991
A/Title: Characterization of posttranslational modifications in neuron-specific class II
A/Reference number: A39703; MUID:91271258; PMID:2052551
A/Accession: A39703
A/Status: preliminary
A/Molecule type: protein
A/Residues: 1-14 <ALB>
A/Cross-references: UNIPROT:Q7M2L3; UNIPARC:UPI000017C586

Query Match 78.9%; Score 15; DB 2; Length 14;
Best Local Similarity 100.0%; Pred. No. 8.2e+02;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOG 3
DB 10 AOG 12

RESULT 11

PS0382
Ig heavy chain J region 2 - rat (fragment)
C/Species: Rattus norvegicus (Norway rat)
C/Date: 09-Oct-1992 #sequence_revision 09-Oct-1992 #text_change 06-Jun-1997
C/Accession: PS0382
R/Lang, P.; Mocikat, R.
Gene 102, 261-264, 1991
A/Title: Immunoglobulin heavy-chain joining genes in the rat: comparison with mouse and
A/Reference number: JH0666; MUID:91340162; PMID:1908401
A/Accession: PS0382
A/Molecule type: DNA
A/Residues: 1-15 <LAN>
A/Cross-references: UNIPARC:UPI000017693B; EMBL:X56791
C/Superfamily: Immunoglobulin V region; Immunoglobulin homology

C/Keywords: heterotetramer; immunoglobulin

Query Match 78.9%; Score 15; DB 2; Length 15;
Best Local Similarity 100.0%; Pred. No. 8.7e+02;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 QGV 4
DB 7 QGV 9

RESULT 12

S05700
insulin-like growth factor-binding protein, adult - human (fragment)
C/Species: Homo sapiens (man)
C/Date: 30-Sep-1991 #sequence_revision 30-Sep-1991 #text_change 18-Jun-1993
C/Accession: S05700
R/Roghani, M.; Hossenlopp, P.; Lepage, P.; Bolland, A.; Binoux, M.
FEBS Lett. 255, 253-258, 1989
A/Title: Isolation from human cerebrospinal fluid of a new insulin-like growth factor-bi
A/Reference number: S05699; MUID:90005986; PMID:2551732
A/Accession: S05700
A/Molecule type: protein
A/Residues: 1-15 <ROG>
A/Cross-references: UNIPARC:UPI000017C274

Query Match 78.9%; Score 15; DB 2; Length 15;
Best Local Similarity 100.0%; Pred. No. 8.7e+02;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 QGV 4
DB 7 QGV 9

RESULT 13

B56046
urinary tract stone matrix protein 2, 21K - human (fragment)
C/Species: Homo sapiens (man)
C/Date: 12-Apr-1995 #sequence_revision 12-Apr-1995 #text_change 12-Apr-1995
C/Accession: B56046
R/Binette, J.P.; Binette, M.B.; Gawinowicz, M.A.; Kendrick, N.
Submitted to the Protein Sequence Database, February 1995
A/Description: Isolation, characterization and sequence of stone proteins.
A/Reference number: A56046
A/Accession: B56046
A/Status: preliminary
A/Molecule type: protein
A/Residues: 1-15 <BIN>
A/Cross-references: UNIPARC:UPI000017C408

Query Match 78.9%; Score 15; DB 2; Length 15;
Best Local Similarity 100.0%; Pred. No. 8.7e+02;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 QGV 4
DB 5 QGV 7

RESULT 14

S05699
insulin-like growth factor-binding protein, juvenile - human (fragment)
C/Species: Homo sapiens (man)
C/Date: 30-Sep-1991 #sequence_revision 30-Sep-1991 #text_change 09-Jul-2004
C/Accession: S05699
R/Roghani, M.; Hossenlopp, P.; Lepage, P.; Bolland, A.; Binoux, M.
FEBS Lett. 255, 253-258, 1989
A/Title: Isolation from human cerebrospinal fluid of a new insulin-like growth factor-bi
A/Reference number: S05699; MUID:90005986; PMID:2551732
A/Accession: S05699
A/Molecule type: protein
A/Residues: 1-15 <ROG>

A;Cross-references: UNIPROT:P24592; UNIPARC:UPI000017C276

Query Match 78.9%; Score 15; DB 2; Length 15;
 Best Local Similarity 100.0%; Pred. No. 8.7e+02;
 Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 QGV 4
 |||
 Db 7 QGV 9

RESULT 15

S28839

RNA-binding protein, 28K - garden pea (fragment)

C;Species: Pisum sativum (garden pea)

C;Date: 19-Mar-1997 #sequence_revision 10-Oct-1997 #text_change 09-Jul-2004

C;Accession: S28839

R;Subbatah, C.C.; Tewart, K.K.

Eur. J. Biochem. 211, 171-179, 1993

A;Title: Purification and characterization of ribonucleoproteins from pea chloroplasts.

A;Reference number: S28837; MUID:93145944; PMID:8425527

A;Accession: S28839

A;Molecule type: protein

A;Residues: 1-17 <SUB>

A;Cross-references: UNIPROT:Q9T2K3; UNIPARC:UPI0000096D45

A;Experimental source: cv. Arkel

A;Description: may be involved in post-transcriptional regulation of plastid genes

C;Keywords: chloroplast; transcription regulation

Query Match 78.9%; Score 15; DB 2; Length 17;
 Best Local Similarity 100.0%; Pred. No. 9.9e+02;

Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOG 3
 |||
 Db 2 AOG 4

Search completed: February 17, 2006, 17:03:28
 Job time : 24 secs

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OM protein - protein search, using sw model

Run on: February 17, 2006, 16:53:37 ; Search time 144.5 Seconds
(without alignments)
19.530 Million cell updates/sec

Title: US-10-821-256-2
Perfect score: 19
Sequence: 1 AGGV 4

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2166443 seqs, 705528306 residues

Total number of hits satisfying chosen parameters: 21620

Minimum DB seq length: 0
Maximum DB seq length: 25

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Uniprot 05.80:*
1: uniprot_sprot:*
2: uniprot_trembl:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	19	100.0	20	1	ATP4_SPTOL
2	18	94.7	15	2	065177_MESCR
3	18	94.7	20	2	0944C7_MYCAV
4	18	94.7	22	2	091RBI_BOVIN
5	16	84.2	10	2	075SW3_ECOLI
6	16	84.2	18	2	061C88_MOUSE
7	16	84.2	19	2	09PS70_CHICK
8	16	84.2	20	2	P82666_BOVIN
9	16	84.2	23	2	Q9UCS1_HUMAN
10	15	78.9	8	2	Q28866_MEGNO
11	15	78.9	10	1	TRP5_LEUUA
12	15	78.9	11	2	09X9S6_STRLI
13	15	78.9	11	2	062207_MOUSE
14	15	78.9	12	2	Q7Y7W2_GICAR
15	15	78.9	12	2	Q7Y7W3_GICAR
16	15	78.9	12	2	Q7Y7W4_GICAR
17	15	78.9	12	2	Q7Y7W5_GICAR
18	15	78.9	12	2	Q7Y7W6_GICAR
19	15	78.9	12	2	Q7Y7W7_GICAR
20	15	78.9	12	2	Q7Y7W8_GICAR
21	15	78.9	12	2	Q7Y7W9_GICAR
22	15	78.9	12	2	Q7Y7W3_GICAR
23	15	78.9	12	2	Q7Y7W4_GICAR
24	15	78.9	12	2	Q7Y7W5_GICAR
25	15	78.9	12	2	Q7Y7W6_GICAR
26	15	78.9	12	2	Q7Y7W7_GICAR
27	15	78.9	12	2	Q7Y7W8_GICAR
28	15	78.9	12	2	Q7Y7W9_GICAR
29	15	78.9	12	2	Q7Y7W3_GICAR
30	15	78.9	12	2	Q7Y7W4_GICAR
31	15	78.9	12	2	Q7Y7W5_GICAR

32	15	78.9	12	2	Q7Y7W7_GICAR	Q7Y7W7 suaeda para
33	15	78.9	12	2	Q7Y7W8_GICAR	Q7Y7W8 suaeda para
34	15	78.9	12	2	Q7Y7W9_GICAR	Q7Y7W9 suaeda para
35	15	78.9	12	2	Q7Y7W3_GICAR	Q7Y7W3 suaeda para
36	15	78.9	12	2	Q7Y7W4_GICAR	Q7Y7W4 suaeda para
37	15	78.9	12	2	Q7Y7W5_GICAR	Q7Y7W5 suaeda para
38	15	78.9	12	2	Q7Y7W6_GICAR	Q7Y7W6 suaeda para
39	15	78.9	12	2	Q7Y7W7_GICAR	Q7Y7W7 suaeda para
40	15	78.9	12	2	Q7Y7W8_GICAR	Q7Y7W8 suaeda para
41	15	78.9	12	2	Q7Y7W9_GICAR	Q7Y7W9 suaeda para
42	15	78.9	12	2	Q7Y7W3_GICAR	Q7Y7W3 suaeda para
43	15	78.9	12	2	Q7Y7W4_GICAR	Q7Y7W4 suaeda para
44	15	78.9	12	2	Q7Y7W5_GICAR	Q7Y7W5 suaeda para
45	15	78.9	12	2	Q7Y7W6_GICAR	Q7Y7W6 suaeda para

ALIGNMENTS

RESULT 1
ATP4_SPTOL STANDARD, PRT, 20 AA.
ID ATP4_SPTOL
AC P80085;
DT 01-MAY-1992 (Rel. 22, Created)
DT 01-MAY-1992 (Rel. 22, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE ATP synthase delta, chain, mitochondrial (EC 3.6.3.14) (Fragment).
OS Spinacia oleracea (Spinach).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicotyledons;
OC Caryophyllales; Amaranthaceae; Spinacia.
CC NCBI_TaxID=3562;
XX [1]
RN PROTEIN SEQUENCE.
RP STRAIN=cv. Medania; TISSUE=leaf mesophyll;
RX MEDLINE=92209531; PubMed=1313368;
RA Haneaur B., Glaeser E.;
RT "Plant mitochondrial FOF1 ATP synthase. Identification of the
RT individual subunits and properties of the purified spinach leaf
RT mitochondrial ATP synthase."
RL Eur. J. Biochem. 205:409-416(1992).
CC -1- FUNCTION: Produces ATP from ADP in the presence of a proton
CC gradient across the membrane.
CC -1- FUNCTION: This is one of the 5 chains of the enzymatic component
CC (coupling factor CF(1)) of the mitochondrial ATPase complex.
CC -1- CATALYTIC ACTIVITY: ATP + H(2)O + H(+) (In) = ADP + phosphate +
CC H(+) (Out).
CC -1- SUBUNIT: F-type ATPases have 2 components, CF(1) - the catalytic
CC core - and CF(0) - the membrane proton channel. CF(1) has five
CC subunits: alpha(3), beta(3), gamma(1), delta(1), epsilon(1). CF(0)
CC has three main subunits: a, b and c.
CC -1- SUBCELLULAR LOCATION: Mitochondrial.
CC -1- SIMILARITY: Belongs to the ATPase epsilon chain family.
CC This Swiss-Prot entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use as long as its content is in no way modified and this statement is not
CC removed.
CC PIR: S21244; S21244.
KW ATP synthase; CF(1); Direct protein sequencing;
KW Hydrogen ion transport; Hydrolyase; Ion transport; Mitochondrion;
KW Transp. 20
FT NON TER 20
SQ SEQUENCE 20 AA: 2025A964C4B991A3 CRC64;
Query Match 100.0%; Score 19; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.7e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
1 AGGV 4
||||

Db 9 ACGV 12

RESULT 2

065177 MESCR PRELIMINARY; PRT; 15 AA.

AC 065177;

DT 01-AUG-1998 (TReMBLrel. 07, Created)

DT 01-AUG-1998 (TReMBLrel. 07, Last sequence update)

DT 01-DEC-2001 (TReMBLrel. 19, Last annotation update)

DE Thigot responsive protein homolog (Fragment).

OS Mesembryanthemum crystallinum (Common ice plant).

OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;

OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;

OC Caryophyllales; Alzooceae; Mesembryanthemum.

OX NCBI_TaxID=3544;

RN [1]

RP NUCLEOTIDE SEQUENCE.

RC TISSUE=Root;

RA Submitted (MAR-1998) to the EMBL/GenBank/DBJ databases.

RL EMBL; AF054444; AAC14178.1; -, mRNA.

FT NON TER 1

SO SEQUENCE 15 AA; 1607 MW; 4137EDDF9B3FC21 CRC64;

Query Match 94.7%; Score 18; DB 2; Length 15;

Best Local Similarity 75.0%; Pred. No. 9.9e+02;

Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 1 ACGV 4

Db 9 ACGI 12

RESULT 3

09R4C7 MYCAV PRELIMINARY; PRT; 20 AA.

AC 09R4C7;

DT 01-MAY-2000 (TReMBLrel. 13, Created)

DT 01-MAY-2000 (TReMBLrel. 13, Last sequence update)

DT 01-MAY-2000 (TReMBLrel. 13, Last annotation update)

DE 35 kDa EGF-binding protein (Fragment).

OS Mycobacterium avium.

OC Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;

OC Corynebacterineae; Mycobacteriaceae; Mycobacterium;

OC NCBI_TaxID=1764;

OX [1]

RN PROTEIN SEQUENCE.

RA MEDLINE=66333319; PubMed=8757813;

RA Bermudez L.E., Petrofsky M., Shelton K.;

RT "Epidermal growth factor-binding protein in mycobacterium avium and

RT mycobacterium tuberculosis: a possible role in the mechanism of

RT infection."

RL Infect. Immun. 64:2917-2922(1996).

SO SEQUENCE 20 AA; 2174 MW; BEA563671F69778 CRC64;

Query Match 94.7%; Score 18; DB 2; Length 20;

Best Local Similarity 75.0%; Pred. No. 1.3e+03;

Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 1 ACGV 4

Db 1 ACGI 4

RESULT 4

09TRB1 BOVIN PRELIMINARY; PRT; 22 AA.

AC 09TRB1;

DT 01-MAY-2000 (TReMBLrel. 13, Created)

DT 01-MAY-2000 (TReMBLrel. 13, Last sequence update)

DT 01-JUN-2001 (TReMBLrel. 17, Last annotation update)

DE ATP-dependent 20 S proteasome activator (Fragment).

OS Bos taurus (Bovine).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;

OC Pecora; Bovidae; Bovinae; Bos.

OX NCBI_TaxID=9913;

RN [1]

RP PROTEIN SEQUENCE.

RX MEDLINE=94342244; PubMed=8063704;

RA Demartino G.N., Mooney C.R., Zagnitko O.P., Proske R.J., Chu-Ping M.,

RA Atendino S.J., Swaffield J.C., Slaughter C.A.;

RT "PA700, an ATP-dependent activator of the 20 S proteasome, is an

RT ATPase containing multiple members of a nucleotide-binding protein

RT family."

RL J Biol. Chem. 269:20878-20884(1994).

SO SEQUENCE 22 AA; 2195 MW; FE139DACP4AE9BE CRC64;

Query Match 94.7%; Score 18; DB 2; Length 22;

Best Local Similarity 75.0%; Pred. No. 1.4e+03;

Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 1 ACGV 4

Db 6 ACGI 9

RESULT 5

075SM3_ECOLI PRELIMINARY; PRT; 10 AA.

AC 075SM3;

DT 05-JUL-2004 (TReMBLrel. 27, Created)

DT 05-JUL-2004 (TReMBLrel. 27, Last sequence update)

DT 10-MAY-2005 (TReMBLrel. 30, Last annotation update)

DE Sigma F factor (Fragment).

GN Name=Fla;

OS Escherichia coli.

OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;

OC Enterobacteriaceae; Escherichia.

OX NCBI_TaxID=562;

RN [1]

RP NUCLEOTIDE SEQUENCE.

RC STRAIN=E480-68, E223-69, and B17327-41;

RX PubMed=15056931; DOI=10.1266/99g.79.1;

RA Tomioka A.;

RT "Characterization of six flagellin genes in the H3, H53 and H54

RT standard strains of Escherichia coli."

RL Genes Genet. Syst. 79:1-8(2004).

DR EMBL; AB128920; BAD14981.1; -, Genomic DNA.

DR EMBL; AB128921; BAD14982.1; -, Genomic DNA.

DR EMBL; AB128919; BAD14979.1; -, Genomic DNA.

FT NON TER 10

SO SEQUENCE 10 AA; 1084 MW; 8161421DC1BB5735 CRC64;

Query Match 84.2%; Score 16; DB 2; Length 10;

Best Local Similarity 75.0%; Pred. No. 2.5e+03;

Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 1 ACGV 4

Db 7 ACGV 10

RESULT 6

06LCB8_MOUSE PRELIMINARY; PRT; 18 AA.

AC 06LCB8;

DT 05-JUL-2004 (TReMBLrel. 27, Created)

DT 05-JUL-2004 (TReMBLrel. 27, Last sequence update)

DT 05-JUL-2004 (TReMBLrel. 27, Last annotation update)

DE TATA-binding protein (Fragment).

GN Name=TBP;

OS Mus musculus (Mouse).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
 OC Muridae; Murinae; Mus.
 OC NCBI_TaxID=10090;
 RN [1]
 RP NUCLEOTIDE SEQUENCE.
 RC STRAIN=C57BL/6;
 RA Trechtel Z., Vincek V., Forejt J., Klein J.;
 RL Submitted (JUL-1996) to the EMBL/GenBank/DBJ databases.
 DR EMBL, U63729; AA80845.1; -; Genomic_DNA.
 FT NON_TER
 SQ SEQUENCE 18 AA; 1931 MW; CC4051C3BDABCC6F CRC64;

Query Match 84.2%; Score 16; DB 2; Length 18;
 Best Local Similarity 75.0%; Pred. No. 4.4e+03;
 Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGV 4
 |||
 Db 11 AGL 14

RESULT 7
 Q9PS70 CHICK PRELIMINARY; PRT; 19 AA.
 AC Q9PS70;
 DT 01-MAY-2000 (TREMBLrel. 13, Created)
 DT 01-MAY-2000 (TREMBLrel. 13, Last sequence update)
 DT 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
 DE Low density lipoprotein receptor-related protein (Fragment).
 OS Gallus gallus (Chicken).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
 OC Gallus.
 OC NCBI_TaxID=9031;
 RN [1]
 RP PROTEIN SEQUENCE.
 RX MEDLINE=92011685; PubMed=1918027;
 RA Steifant S., Barber D.L., Abersold R., Steyrer E., Shen X., Nimpf J.,
 RA Schneider W.J.;
 RT "The laying hen expresses two different low density lipoprotein
 receptor-related proteins.";
 RL J. Biol. Chem. 266:19079-19087(1991).
 FT NON_TER
 FT NON_TER
 SQ SEQUENCE 19 AA; 1861 MW; 4BEC931205620608 CRC64;

Query Match 84.2%; Score 16; DB 2; Length 19;
 Best Local Similarity 75.0%; Pred. No. 4.7e+03;
 Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGV 4
 |||
 Db 3 AGL 6

RESULT 8
 P82666 BOVIN PRELIMINARY; PRT; 20 AA.
 AC P82666;
 DT 01-MAR-2001 (TREMBLrel. 16, Created)
 DT 01-MAR-2001 (TREMBLrel. 16, Last sequence update)
 DT 01-JUN-2003 (TREMBLrel. 24, Last annotation update)
 DE Mitochondrial 28S ribosomal protein S23 (MRP-S23) (Fragments).
 OS Bos taurus (Bovine).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
 OC Pecora; Bovidae; Bovinae; Bos.
 OC NCBI_TaxID=9913;
 RN [1]
 RP PROTEIN SEQUENCE.
 RC TISSUE=Liver;
 RX MEDLINE=20490686; PubMed=10938081; DOI=10.1074/jbc.M003596200;
 RA Koc E.C., Burkhardt W., Blackburn K., Moseley A., Koc H.,

RA Spremulli L.L.;
 RT "A proteomics approach to the identification of mammalian
 mitochondrial small subunit ribosomal proteins.";
 RL J. Biol. Chem. 275:32585-32591(2000).
 CC -1- SUBCELLULAR LOCATION: Mitochondrial.
 DR GO: GO:0005739; C:mitochondrion; IEA.
 DR GO: GO:0003735; F:structural constituent of ribosome; IEA.
 KM Mitochondrion; Ribosomal protein.
 FT NON_CONS
 FT NON_TER
 FT NON_TER
 SQ SEQUENCE 20 AA; 2249 MW; EC7FE3CA50071BE4 CRC64;

Query Match 84.2%; Score 16; DB 2; Length 20;
 Best Local Similarity 75.0%; Pred. No. 4.9e+03;
 Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGV 4
 |||
 Db 4 AGL 7

RESULT 9
 G9UCS1 HUMAN PRELIMINARY; PRT; 23 AA.
 AC G9UCS1;
 DT 01-MAY-2000 (TREMBLrel. 13, Created)
 DT 01-MAY-2000 (TREMBLrel. 13, Last sequence update)
 DT 25-OCT-2004 (TREMBLrel. 28, Last annotation update)
 DE TROPOMYOSIN=33 kDa calcium binding protein fragment A (Fragment).
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominiidae;
 OC Homo.
 OC NCBI_TaxID=9606;
 RN [1]
 RP PROTEIN SEQUENCE.
 RA Crabos M., Yamakado T., Heizmann C.W., Cerletti N., Buhler F.R.,
 RA Erbe P.;
 RT "The calcium binding protein tropomyosin in human platelets and
 RT cardiac tissue: elevation in hypertensive cardiac hypertrophy.";
 RL Submitted (AUG-1992) to the EMBL/GenBank/DBJ databases.
 FT NON_TER
 FT NON_TER
 SQ SEQUENCE 23 AA; 2475 MW; EBD4B463017E7716 CRC64;

Query Match 84.2%; Score 16; DB 2; Length 23;
 Best Local Similarity 75.0%; Pred. No. 5.6e+03;
 Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGV 4
 |||
 Db 20 AGL 23

RESULT 10
 Q28866 MEGNO PRELIMINARY; PRT; 8 AA.
 AC Q28866;
 DT 01-NOV-1996 (TREMBLrel. 01, Created)
 DT 01-NOV-1996 (TREMBLrel. 01, Last sequence update)
 DT 01-MAY-1999 (TREMBLrel. 10, Last annotation update)
 DE Actin protein (Fragment).
 GN Name=actin;
 OS Megaptera novaeangliae (Humpback whale).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Cetacea;
 OC Mysticeti; Balaeopteridae; Megaptera.
 OC NCBI_TaxID=9773;
 RN [1]
 RP NUCLEOTIDE SEQUENCE.
 RX MEDLINE=94285813; PubMed=7912407;
 RA Palumbi S.R., Baker C.S.;

RT "Contrasting population structure from nuclear intron sequences and
 1T MEDNA of humpback whales.";
 RL Mol. Biol. Evol. 11:426-435(1994).
 DR EMBL: S73467; AAD14118.1; -; Genomic_DNA.
 FT NON_TER
 SQ SEQUENCE 8 AA; 906 MW; 69C866D1F4177408 CRC64;

Query Match 78.9%; Score 15; DB 2; Length 8;
 Best Local Similarity 100.0%; Pred. No. 2.2e+06;
 Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 QGV 4
 Db 6 QGV 8

RESULT 11
 TRP5 LEUMA STANDARD; PRT; 10 AA.
 AC P81737;

DT 30-MAY-2000 (Rel. 39, Created)
 DT 30-MAY-2000 (Rel. 39, Last sequence update)
 DT 05-JUL-2004 (Rel. 44, Last annotation update)
 DE Tachykinin-related peptide 5 (Lentrop 5).
 OS Leucophaea maderae (Madeira cockroach).
 OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Preygotha;
 OC Neoptera; Orthopteroidea; Dictyoptera; Blattaria; Blaberoidea;
 OC Blaberidae; Leucophaea.
 NCBI_TaxID=6988;

RP TISSUE=Midgut;
 RC MEDLINE=97053012; PubMed=8897641;
 RA Muren J.B., Naessel D.R.;
 RT "Isolation of five tachykinin-related peptides from the midgut of the
 RT cockroach Leucophaea maderae: existence of N-terminally extended
 RT isoforms.";
 RL Regul. Pept. 65:185-196(1996).

RP PROTEIN SEQUENCE, AND MASS SPECTROMETRY.

RC TISSUE=Brain;
 RX MEDLINE=97269266; PubMed=9114447; DOI=10.1016/S0196-9781(96)00243-4;

RA Muren J.B., Naessel D.R.;

RT "Seven tachykinin-related peptides isolated from the brain of the
 RT madeira cockroach: evidence for tissue-specific expression of
 RT isoforms.";

RL Peptides 18:7-15(1997).

CC -1- FUNCTION: Myoactive peptide. Increases the amplitude and frequency
 CC of spontaneous contractions and tones of hindgut muscle.

CC -1- SUBCELLULAR LOCATION: Secreted.

CC -1- TISSUE SPECIFICITY: Midgut and brain.

CC -1- MASS SPECTROMETRY: MW=1033.2; METHOD=MALDI; RANGE=1-10;
 CC NOTE=Ref. 2.

CC -----
 CC This Swiss-Prot entry is copyright. It is produced through a collaboration
 CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
 CC the European Bioinformatics Institute. There are no restrictions on its
 CC use as long as its content is in no way modified and this statement is not
 CC removed.

CC Annotation: Direct protein sequencing; Neuropeptide; Tachykinin.
 CC MOD RES 10 10 Arginine amide.

SQ SEQUENCE 10 AA; 1033 MW; C45CDB6D9C8769D CRC64;

Query Match 78.9%; Score 15; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 4.9e+03;
 Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 QGV 4
 Db 7 QGV 9

RESULT 12
 09X9S6_STRLI PRELIMINARY; PRT; 11 AA.
 ID 09X9S6_STRLI

AC 09X9S6;
 DT 01-NOV-1999 (TrEMBLrel. 12, Created)
 DT 01-NOV-1999 (TrEMBLrel. 12, Last sequence update)
 DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
 DE Hypothetical protein ORF9 (Fragment).

GN Name=ORF9;

OS Streptomyces lividans.
 OC Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;
 OC Streptomycineae; Streptomycetaceae; Streptomyces.

NCBI_TaxID=1916;

RP NUCLEOTIDE SEQUENCE.

RC STRAIN=TK21;
 RX MEDLINE=99328982; PubMed=10400594;

RA Martinez-Costra O.H., Martin-Triana A.U., Martinez E.,
 RA Fernandez-Moreno M.A., Malpartida F.;

RT "An additional regulatory gene for actinorhodin production in
 RT Streptomyces lividans involves a LysR-type transcriptional
 RT regulator.";

RL J. Bacteriol. 181:4353-4364(1999).
 DR EMBL: Y18818; CAB51138.1; -; Genomic_DNA.

KM Hypothetical protein.

FT NON_TER
 SQ SEQUENCE 11 AA; 1160 MW; D1BABA8EC1EDC412 CRC64;

Query Match 78.9%; Score 15; DB 2; Length 11;
 Best Local Similarity 100.0%; Pred. No. 5.3e+03;
 Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 QGV 4
 Db 2 QGV 4

RESULT 13
 062207_MOUSE PRELIMINARY; PRT; 11 AA.
 ID 062207_MOUSE

AC 062207;
 DT 01-NOV-1996 (TrEMBLrel. 01, Created)
 DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
 DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)

DE Schwannomin (Fragment).

GN Name=NF2; Synonyms=NF2;

OS Mus musculus (Mouse).

OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
 OC Muridae; Murinae; Mus.

NCBI_TaxID=10090;

RP NUCLEOTIDE SEQUENCE.

RC TISSUE=Brain;
 RX MEDLINE=95072570; PubMed=7981675;

RA Huynh D.P., Nechiporuk T., Puls S.M.;

RT "Alternative transcripts in the mouse neurofibromatosis type 2 (NF2)
 RT gene are conserved and code for schwannomins with distinct C-terminal
 RT domains.";

RL Hum. Mol. Genet. 3:1075-1079(1994).

DR EMBL: L28838; AAA57151.1; -; mRNA.

DR PIR: I54368; I54368.

DR MGI: MGI:97307; NF2.

DR GO: GO:0005912; C:adherens junction; IMP.

DR GO: GO:0005515; P:protein binding; IPI.

DR GO: GO:004516; P:intercellular junction assembly and/or main. . .; IMP.

DR GO: GO:0006469; P:negative regulation of protein kinase activity; IDA.

DR GO: GO:0042127; P:regulation of cell proliferation; IMP.

FT NON_TER
 SQ SEQUENCE 11 AA; 1238 MW; C51FA05774140866 CRC64;

Query Match 78.9%; Score 15; DB 2; Length 11;
 Best Local Similarity 100.0%; Pred. No. 5.3e+03;

Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOG 3
|||
Db 3 AOG 5

RESULT 14

Q7Y7W2_9CARY PRELIMINARY; PRT; 12 AA.

AC Q7Y7W2; 01-OCT-2003 (TRENBLREL. 25, Created)

DT 01-OCT-2003 (TRENBLREL. 25, Last sequence update)

DE 10-MAY-2005 (TRENBLREL. 30, Last annotation update)

GN Name=psbB;

OS Sueda prostrata.

OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;

OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;

OC Caryophyllales; Amaranthaceae; Sueda.

OX NCBI_TaxID=224187;

RN [1]

RP NUCLEOTIDE SEQUENCE.

RA Schuetze P., Freitag H., Weising K.;

RT "An integrated molecular and morphological study of the subfamily

RT Suedoideae Uibr. (Chenopodiaceae).";

RL Plant Syst. Evol. 239:257-286 (2003).

DR EMBL; AY181894; AA066039.1; -; Genomic DNA.

DR EMBL; AY181895; AA066042.1; -; Genomic DNA.

DR EMBL; AY181896; AA066045.1; -; Genomic DNA.

DR EMBL; AY181897; AA066048.1; -; Genomic DNA.

DR EMBL; AY181898; AA066051.1; -; Genomic DNA.

DR GO; GO:0009507; C:chloroplast; IEA.

DR Chloroplast.

FT NON TER 1 1

SQ SEQUENCE 12 AA; 1328 MM; 26CBA7B1B311B1B7 CRC64;

Query Match 78.9%; Score 15; DB 2; Length 12;

Best Local Similarity 100.0%; Pred. No. 5.8e+03;

Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 OGV 4
|||
Db 10 OGV 12

RESULT 15

Q7Y7W3_9CARY PRELIMINARY; PRT; 12 AA.

AC Q7Y7W3; 01-OCT-2003 (TRENBLREL. 25, Created)

DT 01-OCT-2003 (TRENBLREL. 25, Last sequence update)

DE 10-MAY-2005 (TRENBLREL. 30, Last annotation update)

GN Name=psbB;

OS Sueda salsa.

OC Chloroplast.

OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;

OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;

OC Caryophyllales; Amaranthaceae; Sueda.

OX NCBI_TaxID=126914;

RN [1]

RP NUCLEOTIDE SEQUENCE.

RA Schuetze P., Freitag H., Weising K.;

RT "An integrated molecular and morphological study of the subfamily

RT Suedoideae Uibr. (Chenopodiaceae).";

RL Plant Syst. Evol. 239:257-286 (2003).

DR EMBL; AY181887; AA066018.1; -; Genomic DNA.

DR EMBL; AY181888; AA066021.1; -; Genomic DNA.

DR GO; GO:0009507; C:chloroplast; IEA.

DR Chloroplast.

FT NON TER 1 1

SQ SEQUENCE 12 AA; 1328 MM; 26CBA7B1B311B1B7 CRC64;

Query Match 78.9%; Score 15; DB 2; Length 12;

Best Local Similarity 100.0%; Pred. No. 5.8e+03;

Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 OGV 4
|||
Db 10 OGV 12

Search completed: February 17, 2006, 17:02:36
Job time : 145.5 secs

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GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: February 17, 2006, 17:18:43 ; Search time 10.5 Seconds

(without alignments)
5.415 Million cell updates/sec

Title: US-10-821-256-2

Perfect score: 19

Sequence: 1 AAGV 4

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 107819 seqs, 14214640 residues

Total number of hits satisfying chosen parameters: 59776

Minimum DB seq length: 0
Maximum DB seq length: 25

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA New:*
1: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
2: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/PC1_NEW_PUB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
7: /cgn2_6/ptodata/1/pubpaa/US11_NEW_PUB.pep.*
8: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	100.0	19	6	US-10-503-575-304	Sequence 304, App
2	100.0	24	7	US-11-054-515-2176	Sequence 2176, Ap
3	100.0	24	7	US-11-054-515-2969	Sequence 2969, Ap
4	94.7	16	6	US-10-939-890-111	Sequence 111, App
5	94.7	20	7	US-11-127-601-29	Sequence 29, App1
6	94.7	20	7	US-11-127-601-30	Sequence 30, App1
7	94.7	20	7	US-11-127-601-31	Sequence 31, App1
8	94.7	20	7	US-11-127-601-32	Sequence 32, App1
9	94.7	20	7	US-11-127-601-33	Sequence 33, App1
10	94.7	20	7	US-11-127-601-34	Sequence 34, App1
11	94.7	20	7	US-11-127-601-35	Sequence 35, App1
12	94.7	20	7	US-11-127-601-36	Sequence 36, App1
13	84.2	8	7	US-11-045-024-1476	Sequence 1476, Ap
14	84.2	8	7	US-11-045-024-1478	Sequence 1478, Ap
15	84.2	8	7	US-11-045-024-1479	Sequence 1479, Ap
16	84.2	8	7	US-11-045-024-1765	Sequence 1765, Ap
17	84.2	8	7	US-11-045-024-5309	Sequence 5309, Ap
18	84.2	8	7	US-11-045-024-6482	Sequence 6482, Ap
19	84.2	8	7	US-11-045-024-7882	Sequence 7882, Ap
20	84.2	8	7	US-11-045-024-7944	Sequence 7944, Ap
21	84.2	8	7	US-11-045-024-9347	Sequence 9347, Ap
22	84.2	8	7	US-11-045-024-9458	Sequence 9458, Ap
23	84.2	8	7	US-11-202-330-33	Sequence 33, App1
24	84.2	9	7	US-11-045-024-1498	Sequence 1498, Ap
25	84.2	9	7	US-11-045-024-1502	Sequence 1502, Ap

26	16	84.2	9	7	US-11-045-024-5267	Sequence 5267, Ap
27	16	84.2	9	7	US-11-045-024-6454	Sequence 6454, Ap
28	16	84.2	9	7	US-11-045-024-6468	Sequence 6468, Ap
29	16	84.2	9	7	US-11-045-024-6768	Sequence 6768, Ap
30	16	84.2	10	7	US-11-045-024-1523	Sequence 1523, Ap
31	16	84.2	10	7	US-11-045-024-1523	Sequence 1523, Ap
32	16	84.2	10	7	US-11-045-024-2201	Sequence 2201, Ap
33	16	84.2	10	7	US-11-045-024-5376	Sequence 5376, Ap
34	16	84.2	10	7	US-11-045-024-7412	Sequence 7412, Ap
35	16	84.2	10	7	US-11-045-024-7890	Sequence 7890, Ap
36	16	84.2	10	7	US-11-045-024-1552	Sequence 1552, Ap
37	16	84.2	11	7	US-11-045-024-2440	Sequence 2440, Ap
38	16	84.2	11	7	US-11-045-024-3432	Sequence 3432, Ap
39	16	84.2	11	7	US-11-045-024-5408	Sequence 5408, Ap
40	16	84.2	11	7	US-11-045-024-5409	Sequence 5409, Ap
41	16	84.2	11	7	US-11-045-024-7897	Sequence 7897, Ap
42	16	84.2	11	7	US-11-045-024-7948	Sequence 7948, Ap
43	16	84.2	11	7	US-11-045-024-7988	Sequence 7988, Ap
44	16	84.2	11	7	US-11-045-024-9342	Sequence 9342, Ap
45	16	84.2	11	7	US-11-045-024-10140	Sequence 10140, A

ALIGNMENTS

```
RESULT 1
US-10-503-575-304
; Sequence 304, Application US/10503575
; Publication No. US20050244823A1
; GENERAL INFORMATION:
; APPLICANT: Drifhout, Jan Mouter
; APPLICANT: van Veele, Petrus Antonius
; APPLICANT: Konig, Frits
; TITLE OF INVENTION: NOVEL EPITOPES FOR CELIAC DISEASE AND AUTOIMMUNE DISEASES, METHOD
; FILE REFERENCE: 2299/72843-PCT-US
; CURRENT APPLICATION NUMBER: US/10/503,575
; PRIOR FILING DATE: 2004-08-04
; PRIOR APPLICATION NUMBER: PCT/NL03/00077
; PRIOR FILING DATE: 2003-02-04
; PRIOR APPLICATION NUMBER: BP 02075456.0
; PRIOR FILING DATE: 2002-02-04
; NUMBER OF SEQ ID NOS: 340
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 304
; LENGTH: 19
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-503-575-304

Query Match      100.0%; Score 19; DB 6; Length 19;
Best Local Similarity 100.0%; Pred. No. 17;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy      1 AAGV 4
      ||||
Db      9 AAGV 12

RESULT 2
US-11-054-515-2176
; Sequence 2176, Application US/11054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
; FILE REFERENCE: PFS23P3
; CURRENT APPLICATION NUMBER: US/11/054,515
; PRIOR FILING DATE: 2005-02-10
; PRIOR APPLICATION NUMBER: 60/543,296
; PRIOR FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/580,347
; PRIOR FILING DATE: 2004-06-18
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PRIOR APPLICATION NUMBER: 10/293,418
PRIOR FILING DATE: 2002-11-14
PRIOR APPLICATION NUMBER: 60/331,469
PRIOR FILING DATE: 2001-11-16
PRIOR APPLICATION NUMBER: 60/340,817
PRIOR FILING DATE: 2001-12-19
PRIOR APPLICATION NUMBER: 09/880,748
PRIOR FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 3247
SEQ ID NO 2176
LENGTH: 24
TYPE: PRT
ORGANISM: Homo sapiens
US-11-054-515-2176

Query Match 100.0%; Score 19; DB 7; Length 24;
Best Local Similarity 100.0%; Pred. No. 22;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ACGV 4
Db 17 ACGV 20

RESULT 3
US-11-054-515-2969
Sequence 2969, Application US/11054515
Publication No. US2005025532A1
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
FILE REFERENCE: PPS23P3
CURRENT APPLICATION NUMBER: US/11/054,515
CURRENT FILING DATE: 2005-02-10
PRIOR APPLICATION NUMBER: 60/543,296
PRIOR FILING DATE: 2004-02-11
PRIOR APPLICATION NUMBER: 60/580,347
PRIOR FILING DATE: 2004-06-18
PRIOR APPLICATION NUMBER: 10/293,418
PRIOR FILING DATE: 2002-11-14
PRIOR APPLICATION NUMBER: 60/331,469
PRIOR FILING DATE: 2001-11-16
PRIOR APPLICATION NUMBER: 60/340,817
PRIOR FILING DATE: 2001-12-19
PRIOR APPLICATION NUMBER: 09/880,748
PRIOR FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 3247
SEQ ID NO 2969
LENGTH: 24
TYPE: PRT
ORGANISM: Homo sapiens
US-11-054-515-2969

Query Match 100.0%; Score 19; DB 7; Length 24;
Best Local Similarity 100.0%; Pred. No. 22;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ACGV 4
Db 17 ACGV 20

RESULT 4
US-10-939-890-111
Sequence 111, Application US/10939890
Publication No. US20050250700A1
GENERAL INFORMATION:
APPLICANT: Sato, Aaron K.
APPLICANT: Dransfield, Daniel J.
APPLICANT: Ladner, Robert C.
APPLICANT: Arbogast, Christophe
APPLICANT: Bussat, Philippe
APPLICANT: Fan, Hong
APPLICANT: Khurana, Sudha
APPLICANT: Linder, Karen E.
APPLICANT: Marinelli, Edmund R.
APPLICANT: Nanjappan, Palaniappa
APPLICANT: Nunn, Adrian D.
APPLICANT: Pillai, Radhakrishna
APPLICANT: Pochon, Sibylle
APPLICANT: Ramalingam, Kondaredidhar
APPLICANT: Shrivastava, Ajay
APPLICANT: Song, Bo
APPLICANT: Swenson, Rolf E.
APPLICANT: Von Wronski, Mathew A.
TITLE OF INVENTION: KDR AND VEGF/KDR BINDING PEPTIDES
FILE REFERENCE: D0617.70014US00
CURRENT APPLICATION NUMBER: US/10/939,890
CURRENT FILING DATE: 2004-09-13
PRIOR APPLICATION NUMBER: US 10/661,156
PRIOR FILING DATE: 2003-09-11
PRIOR APPLICATION NUMBER: US 10/382,082
PRIOR FILING DATE: 2003-03-03
PRIOR APPLICATION NUMBER: PCT/US03/06731
PRIOR FILING DATE: 2003-03-03
PRIOR APPLICATION NUMBER: US 60/440,411
PRIOR FILING DATE: 2003-01-15
PRIOR APPLICATION NUMBER: US 60/360,851
PRIOR FILING DATE: 2002-03-01
NUMBER OF SEQ ID NOS: 883
SOFTWARE: FaastSeq for Windows Version 4.0
SEQ ID NO 111
LENGTH: 16
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Library Isolate
US-10-939-890-111

Query Match 94.7%; Score 18; DB 6; Length 16;
Best Local Similarity 75.0%; Pred. No. 26;
Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
Db 7 ACGI 10

RESULT 5
US-11-127-601-29
Sequence 29, Application US/11127601
Publication No. US2005026019A1
GENERAL INFORMATION:
APPLICANT: Compton, Teresa
APPLICANT: Feire, Adam
TITLE OF INVENTION: CYTOMEGALOVIRUS DISINTEGRIN-LIKE PEPTIDES
FILE REFERENCE: 09820.380

CURRENT APPLICATION NUMBER: US/11/127,601
CURRENT FILING DATE: 2005-05-12
PRIOR APPLICATION NUMBER: US 60/570,260
PRIOR FILING DATE: 2004-05-12
NUMBER OF SEQ ID NOS: 54
SOFTWARE: PatentIn version 3.2
SEQ ID NO 29
LENGTH: 20
TYPE: PRT
ORGANISM: Human cytomegalovirus
US-11-127-601-29

Query Match 94.7%; Score 18; DB 7; Length 20;
Best Local Similarity 75.0%; Pred. No. 34;
Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AOGV 4
|||:
Db 6 AOGI 9

RESULT 6
US-11-127-601-30
Sequence 30, Application US/11/127601
Publication No. US20050260199A1
GENERAL INFORMATION:
APPLICANT: Compton, Teresa
APPLICANT: Feite, Adam
TITLE OF INVENTION: CYTOMEGALOVIRUS DISINTEGRIN-LIKE PEPTIDES
FILE REFERENCE: 09820.380
CURRENT APPLICATION NUMBER: US/11/127,601
CURRENT FILING DATE: 2005-05-12
PRIOR APPLICATION NUMBER: US 60/570,260
PRIOR FILING DATE: 2004-05-12
NUMBER OF SEQ ID NOS: 54
SOFTWARE: PatentIn version 3.2
SEQ ID NO 30
LENGTH: 20
TYPE: PRT
ORGANISM: Human cytomegalovirus
US-11-127-601-30

Query Match 94.7%; Score 18; DB 7; Length 20;
Best Local Similarity 75.0%; Pred. No. 34;
Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AOGV 4
|||:
Db 6 AOGI 9

RESULT 7
US-11-127-601-31
Sequence 31, Application US/11/127601
Publication No. US20050260199A1
GENERAL INFORMATION:
APPLICANT: Compton, Teresa
APPLICANT: Feite, Adam
TITLE OF INVENTION: CYTOMEGALOVIRUS DISINTEGRIN-LIKE PEPTIDES
FILE REFERENCE: 09820.380
CURRENT APPLICATION NUMBER: US/11/127,601
CURRENT FILING DATE: 2005-05-12
PRIOR APPLICATION NUMBER: US 60/570,260
PRIOR FILING DATE: 2004-05-12
NUMBER OF SEQ ID NOS: 54
SOFTWARE: PatentIn version 3.2
SEQ ID NO 31
LENGTH: 20
TYPE: PRT
ORGANISM: Human cytomegalovirus
US-11-127-601-31

Query Match 94.7%; Score 18; DB 7; Length 20;

Best Local Similarity 75.0%; Pred. No. 34;
Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AOGV 4
|||:
Db 6 AOGI 9

RESULT 8
US-11-127-601-32
Sequence 32, Application US/11/127601
Publication No. US20050260199A1
GENERAL INFORMATION:
APPLICANT: Compton, Teresa
APPLICANT: Feite, Adam
TITLE OF INVENTION: CYTOMEGALOVIRUS DISINTEGRIN-LIKE PEPTIDES
FILE REFERENCE: 09820.380
CURRENT APPLICATION NUMBER: US/11/127,601
CURRENT FILING DATE: 2005-05-12
PRIOR APPLICATION NUMBER: US 60/570,260
PRIOR FILING DATE: 2004-05-12
NUMBER OF SEQ ID NOS: 54
SOFTWARE: PatentIn version 3.2
SEQ ID NO 32
LENGTH: 20
TYPE: PRT
ORGANISM: Human cytomegalovirus
US-11-127-601-32

Query Match 94.7%; Score 18; DB 7; Length 20;
Best Local Similarity 75.0%; Pred. No. 34;
Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AOGV 4
|||:
Db 6 AOGI 9

RESULT 9
US-11-127-601-33
Sequence 33, Application US/11/127601
Publication No. US20050260199A1
GENERAL INFORMATION:
APPLICANT: Compton, Teresa
APPLICANT: Feite, Adam
TITLE OF INVENTION: CYTOMEGALOVIRUS DISINTEGRIN-LIKE PEPTIDES
FILE REFERENCE: 09820.380
CURRENT APPLICATION NUMBER: US/11/127,601
CURRENT FILING DATE: 2005-05-12
PRIOR APPLICATION NUMBER: US 60/570,260
PRIOR FILING DATE: 2004-05-12
NUMBER OF SEQ ID NOS: 54
SOFTWARE: PatentIn version 3.2
SEQ ID NO 33
LENGTH: 20
TYPE: PRT
ORGANISM: Human cytomegalovirus
US-11-127-601-33

Query Match 94.7%; Score 18; DB 7; Length 20;
Best Local Similarity 75.0%; Pred. No. 34;
Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AOGV 4
|||:
Db 6 AOGI 9

RESULT 10
US-11-127-601-34
Sequence 34, Application US/11/127601
Publication No. US20050260199A1
GENERAL INFORMATION:

```
; APPLICANT: Compton, Teresa
; APPLICANT: Felire, Adam
; TITLE OF INVENTION: CYTOMEGALOVIRUS DISINTEGRIN-LIKE PEPTIDES
; FILE REFERENCE: 09820.380
; CURRENT APPLICATION NUMBER: US/11/127,601
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 60/570,260
; PRIOR FILING DATE: 2004-05-12
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 34
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Human cytomegalovirus
US-11-127-601-34
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```
Query Match          94.7%; Score 18; DB 7; Length 20;
Best Local Similarity 75.0%; Pred. No. 34;
Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 ACGV 4
        |||:
Db       6 ACGI 9
```

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RESULT 11
US-11-127-601-35
; Sequence 35, Application US/11127601
; Publication No. US20050260199A1
; GENERAL INFORMATION:
; APPLICANT: Compton, Teresa
; APPLICANT: Felire, Adam
; TITLE OF INVENTION: CYTOMEGALOVIRUS DISINTEGRIN-LIKE PEPTIDES
; FILE REFERENCE: 09820.380
; CURRENT APPLICATION NUMBER: US/11/127,601
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 60/570,260
; PRIOR FILING DATE: 2004-05-12
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 35
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Human cytomegalovirus
US-11-127-601-35
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Query Match          94.7%; Score 18; DB 7; Length 20;
Best Local Similarity 75.0%; Pred. No. 34;
Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
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```
QY      1 ACGV 4
        |||:
Db       6 ACGI 9
```

```
RESULT 12
US-11-127-601-36
; Sequence 36, Application US/11127601
; Publication No. US20050260199A1
; GENERAL INFORMATION:
; APPLICANT: Compton, Teresa
; APPLICANT: Felire, Adam
; TITLE OF INVENTION: CYTOMEGALOVIRUS DISINTEGRIN-LIKE PEPTIDES
; FILE REFERENCE: 09820.380
; CURRENT APPLICATION NUMBER: US/11/127,601
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 60/570,260
; PRIOR FILING DATE: 2004-05-12
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 36
; LENGTH: 20
; TYPE: PRT
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; ORGANISM: Human cytomegalovirus
US-11-127-601-36
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Query Match          94.7%; Score 18; DB 7; Length 20;
Best Local Similarity 75.0%; Pred. No. 34;
Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
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```
QY      1 ACGV 4
        |||:
Db       6 ACGI 9
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RESULT 13
US-11-045-024-1476
; Sequence 1476, Application US/11045024
; Publication No. US20050271676A1
; GENERAL INFORMATION:
; APPLICANT: Sette, Alessandro
; APPLICANT: Sidney, John
; APPLICANT: Southwood, Scott
; APPLICANT: Livingston, Brian
; APPLICANT: Chesnut, Robert
; APPLICANT: Baker, Denise Marie
; APPLICANT: Kubo, Ralph
; APPLICANT: Grey, Howard M.
; APPLICANT: BiImmune Inc.
; TITLE OF INVENTION: Inducing Cellular Responses to Human Immunodeficiency
; TITLE OF INVENTION: Virus-1 Using Peptide and Nucleic Acid Compositions
; FILE REFERENCE: 2060.0040007
; CURRENT APPLICATION NUMBER: US/11/045,024
; CURRENT FILING DATE: 2005-01-28
; PRIOR APPLICATION NUMBER: US 09/412,863
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: US 08/027,146
; PRIOR FILING DATE: 1993-03-05
; PRIOR APPLICATION NUMBER: US 08/073,205
; PRIOR FILING DATE: 1993-06-04
; PRIOR APPLICATION NUMBER: US 08/103,396
; PRIOR FILING DATE: 1993-08-06
; PRIOR APPLICATION NUMBER: US 08/159,184
; PRIOR FILING DATE: 1993-11-29
; PRIOR APPLICATION NUMBER: US 08/159,339
; PRIOR FILING DATE: 1993-11-29
; PRIOR APPLICATION NUMBER: US 08/205,713
; PRIOR FILING DATE: 1994-03-04
; PRIOR APPLICATION NUMBER: US 08/347,610
; PRIOR FILING DATE: 1994-12-01
; NUMBER OF SEQ ID NOS: 14528
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1476
; LENGTH: 8
; TYPE: PRT
; ORGANISM: HUMAN IMMUNODEFICIENCY VIRUS
US-11-045-024-1476
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Query Match          84.2%; Score 16; DB 7; Length 8;
Best Local Similarity 75.0%; Pred. No. 7.7e+04;
Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
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QY      1 ACGV 4
        |||:
Db       3 AEGV 6
```

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RESULT 14
US-11-045-024-1478
; Sequence 1478, Application US/11045024
; Publication No. US20050271676A1
; GENERAL INFORMATION:
; APPLICANT: Sette, Alessandro
; APPLICANT: Sidney, John
; APPLICANT: Southwood, Scott
```

APPLICANT: Livingston, Brian
APPLICANT: Cheesnut, Robert
APPLICANT: Baker, Denise Marie
APPLICANT: Cells, Eateban
APPLICANT: Kubo, Ralph
APPLICANT: Grey, Howard M.
APPLICANT: Eplimmune Inc.
TITLE OF INVENTION: Inducing Cellular Responses to Human Immunodeficiency
FILE REFERENCE: 2060.0040007
CURRENT FILING DATE: 2005-01-28
PRIOR APPLICATION NUMBER: US 09/412,863
PRIOR FILING DATE: 1993-10-05
PRIOR APPLICATION NUMBER: US 08/027,146
PRIOR FILING DATE: 1993-03-05
PRIOR APPLICATION NUMBER: US 08/073,205
PRIOR FILING DATE: 1993-06-04
PRIOR APPLICATION NUMBER: US 08/103,396
PRIOR FILING DATE: 1993-08-06
PRIOR APPLICATION NUMBER: US 08/159,184
PRIOR FILING DATE: 1993-11-29
PRIOR APPLICATION NUMBER: US 08/159,339
PRIOR FILING DATE: 1993-11-29
PRIOR APPLICATION NUMBER: US 08/205,713
PRIOR FILING DATE: 1994-03-04
PRIOR APPLICATION NUMBER: US 08/347,610
PRIOR FILING DATE: 1994-12-01
NUMBER OF SEQ ID NOS: 14528
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 1478
LENGTH: 8
TYPE: PRT
ORGANISM: HUMAN IMMUNODEFICIENCY VIRUS
US-11-045-024-1478

Query Match 84.2% Score 16; DB 7; Length 8;
Best Local Similarity 75.0% Pred. No. 7.7e+04;
Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGV 4
|:|
Db 2 AEGV 5

RESULT 15
US-11-045-024-1479
Sequence 1479, Application US/11045024
Publication No. US20050271676A1
GENERAL INFORMATION:
APPLICANT: Sette, Alessandro
APPLICANT: Sidney, John
APPLICANT: Southwood, Scott
APPLICANT: Livingston, Brian
APPLICANT: Cheesnut, Robert
APPLICANT: Baker, Denise Marie
APPLICANT: Cells, Eateban
APPLICANT: Kubo, Ralph
APPLICANT: Grey, Howard M.
APPLICANT: Eplimmune Inc.
TITLE OF INVENTION: Inducing Cellular Responses to Human Immunodeficiency
FILE REFERENCE: 2060.0040007
CURRENT FILING DATE: US/11/045,024
CURRENT FILING DATE: 2005-01-28
PRIOR APPLICATION NUMBER: US 09/412,863
PRIOR FILING DATE: 1993-10-05
PRIOR APPLICATION NUMBER: US 08/027,146
PRIOR FILING DATE: 1993-03-05
PRIOR APPLICATION NUMBER: US 08/073,205
PRIOR FILING DATE: 1993-06-04
PRIOR APPLICATION NUMBER: US 08/103,396
PRIOR FILING DATE: 1993-08-06

PRIOR APPLICATION NUMBER: US 08/159,184
PRIOR FILING DATE: 1993-11-29
PRIOR APPLICATION NUMBER: US 08/159,339
PRIOR FILING DATE: 1993-11-29
PRIOR APPLICATION NUMBER: US 08/205,713
PRIOR FILING DATE: 1994-03-04
PRIOR APPLICATION NUMBER: US 08/347,610
PRIOR FILING DATE: 1994-12-01
NUMBER OF SEQ ID NOS: 14528
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 1479
LENGTH: 8
TYPE: PRT
ORGANISM: HUMAN IMMUNODEFICIENCY VIRUS
US-11-045-024-1479

Query Match 84.2% Score 16; DB 7; Length 8;
Best Local Similarity 75.0% Pred. No. 7.7e+04;
Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGV 4
|:|
Db 2 AEGV 5

Search completed: February 17, 2006, 17:22:50
Job time : 11.5 secs

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OM protein - protein search, using sw model

Run on: February 21, 2006, 09:03:03 ; Search time 119 Seconds
(Without alignments)
14.045 Million cell updates/sec

Title: US-10-821-256-2
Perfect score: 19
Sequence: 1 AGGV 4

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 6317

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 100%
Maximum Match 100%

Listing first 500 summaries

Database : Published Applications AA Main:*

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	19	100.0	4	US-10-029-206A-2	Sequence 2, Appli
3	19	100.0	4	US-10-262-532A-15	Sequence 15, Appli
4	19	100.0	4	US-10-409-630-2	Sequence 2, Appli
5	19	100.0	4	US-10-409-027-2	Sequence 2, Appli
6	19	100.0	4	US-10-409-032-2	Sequence 2, Appli
7	19	100.0	4	US-10-409-642-2	Sequence 2, Appli
8	19	100.0	4	US-10-409-654-2	Sequence 2, Appli
9	19	100.0	4	US-10-409-659-2	Sequence 2, Appli
10	19	100.0	4	US-10-409-671-2	Sequence 2, Appli
11	19	100.0	4	US-10-409-694-2	Sequence 2, Appli
12	19	100.0	4	US-10-409-657-2	Sequence 2, Appli
13	19	100.0	4	US-10-409-668-2	Sequence 2, Appli
14	19	100.0	4	US-10-753-510-2	Sequence 2, Appli
15	19	100.0	4	US-10-821-240A-2	Sequence 2, Appli
16	19	100.0	4	US-10-817-756A-12	Sequence 12, Appli
17	19	100.0	4	US-10-821-256-2	Sequence 2, Appli
18	19	100.0	9	US-10-946-647-184	Sequence 184, Appli
19	19	100.0	9	US-10-946-647-558	Sequence 558, App
20	19	100.0	9	US-10-946-647-855	Sequence 855, App
21	19	100.0	9	US-10-946-647-954	Sequence 954, App
22	19	100.0	10	US-10-122-675-28	Sequence 28, Appli
23	19	100.0	13	US-09-957-806A-115	Sequence 115, Appli
24	19	100.0	19	US-10-394-980-6	Sequence 6, Appli
25	19	100.0	19	US-10-952-557-6	Sequence 430, App
26	19	100.0	20	US-09-397-945-430	Sequence 401, App
27	19	100.0	20	US-10-280-066-401	

28	19	100.0	20	US-10-653-595-430	Sequence 430, App
29	19	100.0	4	US-10-241-814-13	Sequence 13, Appli
30	19	100.0	21	US-10-377-134-8	Sequence 8, Appli
31	19	100.0	21	US-10-872-770-12	Sequence 12, Appli
32	19	100.0	23	US-10-097-065-597	Sequence 597, App
33	19	100.0	23	US-10-372-876-597	Sequence 597, App
34	19	100.0	24	US-09-880-748-2176	Sequence 2176, App
35	19	100.0	24	US-09-880-748-2869	Sequence 2869, App
36	19	100.0	24	US-10-293-418-2176	Sequence 2176, App
37	19	100.0	24	US-10-293-418-2869	Sequence 2869, App
38	19	100.0	25	US-09-864-761-45997	Sequence 45997, A
39	19	100.0	25	US-10-269-806-80	Sequence 80, Appli
40	19	100.0	25	US-10-029-386-33755	Sequence 33755, A
41	19	100.0	25	US-10-424-599-169158	Sequence 169158, A
42	19	100.0	29	US-10-424-599-281150	Sequence 181150, A
43	19	100.0	30	US-10-800-023-1	Sequence 1, Appli
44	19	100.0	33	US-10-424-599-261845	Sequence 261845, A
45	19	100.0	34	US-10-425-115-199464	Sequence 199464, A
46	19	100.0	35	US-10-424-599-242322	Sequence 242322, A
47	19	100.0	37	US-10-252-773-11	Sequence 11, Appli
48	19	100.0	38	US-10-120-319-22	Sequence 22, Appli
49	19	100.0	38	US-10-189-977-22	Sequence 22, Appli
50	19	100.0	38	US-10-392-098-22	Sequence 22, Appli
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53	19	100.0	41	US-10-282-122A-45229	Sequence 45229, A
54	19	100.0	41	US-10-425-115-257966	Sequence 257966, A
55	19	100.0	41	US-10-773-446-115	Sequence 115, App
56	19	100.0	43	US-10-425-115-256443	Sequence 256443, A
57	19	100.0	44	US-10-425-115-280416	Sequence 280416, A
58	19	100.0	48	US-09-397-945-424	Sequence 424, App
59	19	100.0	48	US-10-424-599-203996	Sequence 203996, A
60	19	100.0	48	US-10-424-599-216178	Sequence 216178, A
61	19	100.0	48	US-10-653-595-424	Sequence 424, App
62	19	100.0	48	US-10-425-115-339468	Sequence 339468, A
63	19	100.0	49	US-10-029-386-37682	Sequence 37682, A
64	19	100.0	49	US-10-424-599-225119	Sequence 225119, A
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66	19	100.0	51	US-10-424-599-193989	Sequence 193989, A
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68	19	100.0	52	US-10-425-115-114288	Sequence 114288, A
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71	19	100.0	54	US-10-016-768-3	Sequence 3, Appli
72	19	100.0	55	US-09-764-877-1474	Sequence 1474, App
73	19	100.0	55	US-10-242-515-1474	Sequence 1474, App
74	19	100.0	55	US-10-425-115-279298	Sequence 279298, A
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76	19	100.0	56	US-10-116-235-32	Sequence 32, Appli
77	19	100.0	56	US-10-264-049-3884	Sequence 3884, App
78	19	100.0	56	US-10-424-599-279039	Sequence 279039, A
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83	19	100.0	58	US-10-425-115-192059	Sequence 192059, A
84	19	100.0	58	US-10-425-115-219711	Sequence 219711, A
85	19	100.0	58	US-10-425-115-336290	Sequence 336290, A
86	19	100.0	59	US-09-925-298-590	Sequence 590, App
87	19	100.0	59	US-10-102-806-590	Sequence 590, App
88	19	100.0	59	US-10-029-386-28279	Sequence 28279, A
89	19	100.0	59	US-10-425-115-278273	Sequence 278273, A
90	19	100.0	60	US-09-864-408A-2276	Sequence 2276, App
91	19	100.0	60	US-10-424-599-198924	Sequence 198924, A
92	19	100.0	62	US-10-424-599-189118	Sequence 189118, A
93	19	100.0	62	US-10-424-599-189377	Sequence 189377, A
94	19	100.0	62	US-10-425-114-71256	Sequence 71256, A
95	19	100.0	63	US-10-425-115-188418	Sequence 188418, A
96	19	100.0	63	US-10-029-386-31780	Sequence 31780, A
97	19	100.0	63	US-10-424-599-262885	Sequence 262885, A
98	19	100.0	63	US-10-424-599-270368	Sequence 270368, A
99	19	100.0	63	US-10-425-115-251637	Sequence 251637, A
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103	19	100.0	64	4	US-10-425-115-219280	Sequence 219280,	176	19	100.0	88	3	US-09-989-920-196	Sequence 196, App
104	19	100.0	65	4	US-10-437-963-106625	Sequence 106625,	177	19	100.0	88	4	US-10-437-963-148663	Sequence 148663,
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111	19	100.0	67	4	US-10-425-115-331718	Sequence 331718,	184	19	100.0	91	4	US-10-424-599-282811	Sequence 282811,
112	19	100.0	67	6	US-11-097-143-39666	Sequence 39666, A	185	19	100.0	91	4	US-10-767-701-58893	Sequence 58893, A
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119	19	100.0	69	4	US-10-425-115-324687	Sequence 324687,	192	19	100.0	93	4	US-10-425-115-245408	Sequence 245408,
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121	19	100.0	70	4	US-10-437-963-134195	Sequence 134195,	194	19	100.0	93	5	US-10-484-148-23	Sequence 23, Appl
122	19	100.0	70	4	US-10-425-115-321591	Sequence 321591,	195	19	100.0	94	4	US-10-425-115-341122	Sequence 341122,
123	19	100.0	71	5	US-10-926-683-1548	Sequence 1548, Ap	196	19	100.0	95	4	US-10-156-761-1115	Sequence 1115, A
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125	19	100.0	72	4	US-10-424-599-182197	Sequence 182197,	198	19	100.0	95	4	US-10-425-115-314568	Sequence 314568,
126	19	100.0	72	4	US-10-424-599-234373	Sequence 234373,	199	19	100.0	96	4	US-10-425-115-348114	Sequence 348114,
127	19	100.0	72	4	US-10-425-115-202113	Sequence 202113,	200	19	100.0	96	4	US-10-424-599-220040	Sequence 220040,
128	19	100.0	72	4	US-10-425-115-348682	Sequence 348682,	201	19	100.0	96	4	US-10-437-963-186534	Sequence 186534,
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132	19	100.0	75	3	US-09-867-550-1124	Sequence 1124, Ap	205	19	100.0	97	4	US-10-425-115-358132	Sequence 358132,
133	19	100.0	75	4	US-10-424-599-154365	Sequence 154365,	206	19	100.0	97	5	US-10-501-282-1482	Sequence 1482, Ap
134	19	100.0	75	4	US-10-437-963-147518	Sequence 147518,	207	19	100.0	98	4	US-10-424-599-189929	Sequence 189929,
135	19	100.0	75	4	US-10-425-115-222854	Sequence 222854,	208	19	100.0	98	4	US-10-424-599-194380	Sequence 194380,
136	19	100.0	76	4	US-10-029-386-30198	Sequence 30198, A	209	19	100.0	99	5	US-10-617-320-5200	Sequence 5200, Ap
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138	19	100.0	76	4	US-10-425-115-292142	Sequence 292142,	211	19	100.0	100	4	US-10-080-170-56	Sequence 56, Appl
139	19	100.0	76	4	US-10-425-115-355384	Sequence 355384,	212	19	100.0	100	4	US-10-468-356-56	Sequence 356, Appl
140	19	100.0	77	4	US-10-425-115-271573	Sequence 271573,	213	19	100.0	100	4	US-10-425-115-222178	Sequence 222178,
141	19	100.0	77	4	US-10-425-115-289812	Sequence 289812,	214	19	100.0	100	4	US-10-425-115-289173	Sequence 289173,
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157	19	100.0	83	4	US-10-425-115-205887	Sequence 205887,	230	19	100.0	104	4	US-10-425-115-205212	Sequence 205212,
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159	19	100.0	83	4	US-10-425-115-289244	Sequence 289244,	232	19	100.0	105	4	US-10-424-599-258231	Sequence 258231,
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161	19	100.0	84	3	US-09-876-997-330	Sequence 330, App	234	19	100.0	106	4	US-10-424-599-207947	Sequence 207947,
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163	19	100.0	84	5	US-10-643-836-330	Sequence 364443,	236	19	100.0	106	4	US-10-425-115-197558	Sequence 197558,
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165	19	100.0	84	6	US-11-097-143-21975	Sequence 21975, A	238	19	100.0	107	3	US-09-833-245-1848	Sequence 1848, App
166	19	100.0	85	4	US-10-425-114-68442	Sequence 68444, A	239	19	100.0	107	3	US-09-800-095A-104	Sequence 104, App
167	19	100.0	85	4	US-10-363-616-365	Sequence 365, App	240	19	100.0	107	4	US-10-424-599-163119	Sequence 163119,
168	19	100.0	85	4	US-10-335-977-8250	Sequence 8250, Ap	241	19	100.0	107	4	US-10-424-599-177891	Sequence 177891,
169	19	100.0	85	4	US-10-425-115-368000	Sequence 368000, Ap	242	19	100.0	107	4	US-10-425-115-291289	Sequence 291289,
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172	19	100.0	86	4	US-10-335-977-8249	Sequence 8249, Ap	245	19	100.0	109	4	US-10-425-115-260668	Sequence 260668,
173	19	100.0	86	5	US-10-799-514-13	Sequence 13, Appl	246	19	100.0	109	4	US-10-425-115-260668	Sequence 260668,

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269	19	100.0	114	4	US-10-425-115-269209	Sequence 269209,
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271	19	100.0	114	5	US-10-450-763-38060	Sequence 38060, A
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276	19	100.0	115	4	US-10-437-963-154724	Sequence 154724,
277	19	100.0	115	4	US-10-437-963-163186	Sequence 163186,
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284	19	100.0	118	4	US-10-425-115-311566	Sequence 311566,
285	19	100.0	119	4	US-10-190-435-241	Sequence 241, App
286	19	100.0	119	4	US-10-425-115-292750	Sequence 292750,
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289	19	100.0	120	4	US-10-437-963-133900	Sequence 133900,
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RESULT 1

US-10-028-075B-2

Sequence 2, Application US/10028075B

Publication No. US2003013733A1

GENERAL INFORMATION:

APPLICANT: Khan, Nisier A.

APPLICANT: Benner, Robert

TITLE OF INVENTION: Gene regulator

FILE REFERENCE: 2183-5223US

CURRENT APPLICATION NUMBER: US/10/028, 075B

PRIOR FILING DATE: 2001-12-21

PRIOR APPLICATION NUMBER: EP 01203748.7

NUMBER OF SEQ ID NOS: 175

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 2

LENGTH: 4

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURES:

OTHER INFORMATION: Description of Artificial Sequence: oligopeptide

US-10-028-075B-2

Query Match

Best Local Similarity

Matches

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Score 19;

DB 4;

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100.0%;

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Conservative

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AGCV

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RESULT 2

US-10-029-206A-2
; Sequence 2, Application US/10029206A
; Publication No. US20030119720A1
; GENERAL INFORMATION:
; APPLICANT: Khan, Nisar A.
; APPLICANT: Benner, Robert
; TITLE OF INVENTION: Oligopeptide treatment of anthrax
; FILE REFERENCE: 2183-522US
; CURRENT APPLICATION NUMBER: US/10/029,206A
; CURRENT FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: 09/821,380
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 175
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: oligopeptide
US-10-029-206A-2

Query Match 100.0%; Score 19; DB 4; Length 4;
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RESULT 3
US-10-262-522A-15
; Sequence 15, Application US/10262522A
; Publication No. US20030166556A1
; GENERAL INFORMATION:
; APPLICANT: Khan, Nisar A.
; APPLICANT: Benner, Robert
; TITLE OF INVENTION: Immunosuppressor
; FILE REFERENCE: P52912US00
; CURRENT APPLICATION NUMBER: US/10/262,522A
; CURRENT FILING DATE: 2002-09-30
; PRIOR APPLICATION NUMBER: PCT/NL01/00259
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: EP 00201139.3
; PRIOR FILING DATE: 2000-03-29
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn version 3.1
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; TYPE: PRT
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US-10-262-522A-15

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Best Local Similarity 100.0%; Pred. No. 1.7e+06;
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RESULT 4
US-10-409-630-2
; Sequence 2, Application US/10409630
; Publication No. US2003021543A1
; GENERAL INFORMATION:
; APPLICANT: KHAN, NISAR A.

; APPLICANT: BENNER, ROBERT
; TITLE OF INVENTION: TREATMENT OF MULTIPLE SCLEROSIS (MS)
; FILE REFERENCE: 3077-5953US
; CURRENT APPLICATION NUMBER: US/10/409,630
; CURRENT FILING DATE: 2003-04-08
; PRIOR APPLICATION NUMBER: 10/028,075
; PRIOR FILING DATE: 2001-12-21
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn Ver. 2.1
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US-10-409-630-2

Query Match 100.0%; Score 19; DB 4; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 5
US-10-409-027-2
; Sequence 2, Application US/10409027
; Publication No. US20030219425A1
; GENERAL INFORMATION:
; APPLICANT: KHAN, NISAR A.
; APPLICANT: BENNER, ROBERT
; APPLICANT: YZERMAN, JOHANNES N.M.
; TITLE OF INVENTION: TREATMENT OF TRANSPLANT SURVIVAL
; FILE REFERENCE: 3077-5957US
; CURRENT APPLICATION NUMBER: US/10/409,027
; CURRENT FILING DATE: 2003-04-08
; PRIOR APPLICATION NUMBER: 10/028,075
; PRIOR FILING DATE: 2001-12-21
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US-10-409-027-2

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Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AOGV 4
|||
Db 1 AOGV 4

RESULT 6
US-10-409-032-2
; Sequence 2, Application US/10409032
; Publication No. US20030220257A1
; GENERAL INFORMATION:
; APPLICANT: KHAN, NISAR AHMED
; APPLICANT: BENNER, ROBERT
; TITLE OF INVENTION: TREATMENT OF TRAUMA
; FILE REFERENCE: 3077-5952US
; CURRENT APPLICATION NUMBER: US/10/409,032
; CURRENT FILING DATE: 2003-04-08
; PRIOR APPLICATION NUMBER: 10/028,075

;; PRIOR FILING DATE: 2001-12-21
;; NUMBER OF SEQ ID NOS: 29
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 2
;; LENGTH: 4
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
;; OTHER INFORMATION: peptide
US-10-409-032-2

Query Match 100.0%; Score 19; DB 4; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOCV 4
Db 1 AOCV 4

RESULT 7
US-10-409-642-2
;; Sequence 2, Application US/10409642
;; Publication No. US20030220258A1
;; GENERAL INFORMATION:
;; APPLICANT: KHAN, NISAR A.
;; APPLICANT: BENNER, ROBERT
;; APPLICANT: JACOBS, BARTHOLOMEUS C.
;; TITLE OF INVENTION: TREATMENT OF ISCHEMIC EVENTS
;; FILE REFERENCE: 3077-5957US
;; CURRENT APPLICATION NUMBER: US/10/409,642
;; CURRENT FILING DATE: 2003-04-08
;; PRIOR APPLICATION NUMBER: 10/028,075
;; PRIOR FILING DATE: 2001-12-21
;; NUMBER OF SEQ ID NOS: 29
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 2
;; LENGTH: 4
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
;; OTHER INFORMATION: peptide
US-10-409-642-2

Query Match 100.0%; Score 19; DB 4; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOCV 4
Db 1 AOCV 4

RESULT 8
US-10-409-654-2
;; Sequence 2, Application US/10409654
;; Publication No. US20030220259A1
;; GENERAL INFORMATION:
;; APPLICANT: KHAN, NISAR A.
;; APPLICANT: BENNER, ROBERT
;; APPLICANT: WENSVOORT, GERT
;; TITLE OF INVENTION: TREATMENT OF NEUROLOGICAL DISORDERS
;; FILE REFERENCE: 3077-5958US
;; CURRENT APPLICATION NUMBER: US/10/409,654
;; CURRENT FILING DATE: 2003-04-08
;; PRIOR APPLICATION NUMBER: 10/028,075
;; PRIOR FILING DATE: 2001-12-21
;; NUMBER OF SEQ ID NOS: 29
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 2
;; LENGTH: 4

;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
;; OTHER INFORMATION: peptide
US-10-409-654-2

Query Match 100.0%; Score 19; DB 4; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOCV 4
Db 1 AOCV 4

RESULT 9
US-10-409-659-2
;; Sequence 2, Application US/10409659
;; Publication No. US20030220260A1
;; GENERAL INFORMATION:
;; APPLICANT: KHAN, NISAR A.
;; APPLICANT: BENNER, ROBERT
;; TITLE OF INVENTION: PEPTIDE COMPOSITIONS
;; FILE REFERENCE: 3077-5956US
;; CURRENT APPLICATION NUMBER: US/10/409,659
;; CURRENT FILING DATE: 2003-04-08
;; PRIOR APPLICATION NUMBER: 10/028,075
;; PRIOR FILING DATE: 2001-12-21
;; NUMBER OF SEQ ID NOS: 29
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 2
;; LENGTH: 4
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
;; OTHER INFORMATION: peptide
US-10-409-659-2

Query Match 100.0%; Score 19; DB 4; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOCV 4
Db 1 AOCV 4

RESULT 10
US-10-409-671-2
;; Sequence 2, Application US/10409671
;; Publication No. US20030220261A1
;; GENERAL INFORMATION:
;; APPLICANT: KHAN, NISAR A.
;; APPLICANT: BENNER, ROBERT
;; TITLE OF INVENTION: TREATMENT OF IATROGENIC DISEASE
;; FILE REFERENCE: 3077-5955US
;; CURRENT APPLICATION NUMBER: US/10/409,671
;; CURRENT FILING DATE: 2003-04-08
;; PRIOR APPLICATION NUMBER: 10/028,075
;; PRIOR FILING DATE: 2001-12-21
;; NUMBER OF SEQ ID NOS: 29
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 2
;; LENGTH: 4
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
;; OTHER INFORMATION: peptide
US-10-409-671-2

Query Match 100.0%; Score 19; DB 4; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
Db 1 AOGV 4

RESULT 11
US-10-409-694-2
; Sequence 2, Application US/10409694
; Publication No. US20030224955A1
; GENERAL INFORMATION:
; APPLICANT: KHAN, NISAR A.
; APPLICANT: WENSVOORT, GERT
; APPLICANT: BENNER, ROBERT
; TITLE OF INVENTION: TREATMENT OF BURNS
; FILE REFERENCE: 3077-5954US
; CURRENT APPLICATION NUMBER: US/10/409,694
; CURRENT FILING DATE: 2003-04-08
; PRIOR APPLICATION NUMBER: 10/028,075
; PRIOR FILING DATE: 2001-12-21
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: peptide
US-10-409-694-2

Query Match 100.0%; Score 19; DB 4; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
Db 1 AOGV 4

RESULT 12
US-10-409-657-2
; Sequence 2, Application US/10409657
; Publication No. US2004001361A1
; GENERAL INFORMATION:
; APPLICANT: WENSVOORT, GERT
; APPLICANT: KHAN, NISAR A.
; APPLICANT: BENNER, ROBERT
; TITLE OF INVENTION: STRATIFICATION
; FILE REFERENCE: 3077-5960US
; CURRENT APPLICATION NUMBER: US/10/409,657
; CURRENT FILING DATE: 2003-04-08
; PRIOR APPLICATION NUMBER: 10/028,075
; PRIOR FILING DATE: 2001-12-21
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: peptide
US-10-409-657-2

Query Match 100.0%; Score 19; DB 4; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4

Db 1 AOGV 4
|||

RESULT 13
US-10-409-668-2
; Sequence 2, Application US/10409668
; Publication No. US20040202645A1
; GENERAL INFORMATION:
; APPLICANT: Khan, Nisar A.
; APPLICANT: Benner, Robert
; TITLE OF INVENTION: Treatment of Transplant Survival
; FILE REFERENCE: 3077-5959US
; CURRENT APPLICATION NUMBER: US/10/409,668
; CURRENT FILING DATE: 2003-04-08
; NUMBER OF SEQ ID NOS: 35
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 4
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic peptide
US-10-409-668-2

Query Match 100.0%; Score 19; DB 4; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
Db 1 AOGV 4

RESULT 14
US-10-753-510-2
; Sequence 2, Application US/10753510
; Publication No. US20040208855A1
; GENERAL INFORMATION:
; APPLICANT: Khan, Nisar A.
; APPLICANT: Benner, Robert
; TITLE OF INVENTION: Gene regulator
; FILE REFERENCE: 2183-5223US
; CURRENT APPLICATION NUMBER: US/10/753,510
; CURRENT FILING DATE: 2004-01-07
; PRIOR APPLICATION NUMBER: US/10/028,075B
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: EP 01203748.7
; PRIOR FILING DATE: 2001-10-04
; NUMBER OF SEQ ID NOS: 175
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: oligopeptide
US-10-753-510-2

Query Match 100.0%; Score 19; DB 4; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
Db 1 AOGV 4

RESULT 15
US-10-821-240A-2
; Sequence 2, Application US/10821240A
; Publication No. US20050037430A1
; GENERAL INFORMATION:

```
; APPLICANT: Khan, Nisar A.
; APPLICANT: Benner, Robert
; TITLE OF INVENTION: Gene regulator
; FILE REFERENCE: 2183-5223US
; CURRENT APPLICATION NUMBER: US/10/821,240A
; CURRENT FILING DATE: 2004-04-08
; PRIOR APPLICATION NUMBER: 10/028,075
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: EP 01203748.7
; PRIOR FILING DATE: 2001-10-04
; NUMBER OF SEQ ID NOS: 312
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Derivative of SEQ ID NO:1
US-10-821-240A-2
```

```
Query Match          100.0%; Score 19; DB 5; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 ACGV 4
      ||||
Db      1 ACGV 4
```

```
RESULT 16
US-10-817-756A-12
; Sequence 12, Application US/10817756A
; Publication No. US20050214943A1
; GENERAL INFORMATION:
; APPLICANT: Khan, Nisar A.
; APPLICANT: Benner, Robert
; APPLICANT: Erasmus Universiteit Rotterdam
; TITLE OF INVENTION: Gene regulatory peptides
; FILE REFERENCE: 2183-6400US
; CURRENT APPLICATION NUMBER: US/10/817,756A
; CURRENT FILING DATE: 2004-04-02
; PRIOR APPLICATION NUMBER: PCT/NL02/00639
; PRIOR FILING DATE: 2002-10-04
; PRIOR APPLICATION NUMBER: EP 01203748.7
; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: US 10/028,075
; PRIOR FILING DATE: 2001-12-21
; NUMBER OF SEQ ID NOS: 204
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 4
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Chemically synthesized peptid
; NAME/KEY: SITE
; LOCATION: (1)..(4)
US-10-817-756A-12
```

```
Query Match          100.0%; Score 19; DB 5; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 ACGV 4
      ||||
Db      1 ACGV 4
```

```
RESULT 17
US-10-821-256-2
; Sequence 2, Application US/10821256
; Publication No. US20050227925A1
```

```
; GENERAL INFORMATION:
; APPLICANT: Khan, Nisar A
; APPLICANT: Benner, Robert
; TITLE OF INVENTION: Compositions Capable of Reducing Elevated Blood Urea
; FILE REFERENCE: 3077-6420
; CURRENT APPLICATION NUMBER: US/10/821,256
; CURRENT FILING DATE: 2004-04-08
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 4
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthesized Peptide
US-10-821-256-2
```

```
Query Match          100.0%; Score 19; DB 5; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 ACGV 4
      ||||
Db      1 ACGV 4
```

```
RESULT 18
US-10-946-647-184
; Sequence 184, Application US/10946647
; Publication No. US20050186217A1
; GENERAL INFORMATION:
; APPLICANT: EMERY, DARYL A.
; APPLICANT: STRAUB, DARREN E.
; APPLICANT: WONDERLING, LAURA
; TITLE OF INVENTION: COMPOSITIONS PRODUCED USING ENTERIC PATHOGENS AND METHODS OF USE
; FILE REFERENCE: 293.00340101
; CURRENT APPLICATION NUMBER: US/10/946,647
; CURRENT FILING DATE: 2004-09-20
; PRIOR APPLICATION NUMBER: 60/504,119
; PRIOR FILING DATE: 2003-09-19
; NUMBER OF SEQ ID NOS: 1448
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 184
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Salmonella enterica
US-10-946-647-184
```

```
Query Match          100.0%; Score 19; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 ACGV 4
      ||||
Db      1 ACGV 4
```

```
RESULT 19
US-10-946-647-558
; Sequence 558, Application US/10946647
; Publication No. US20050186217A1
; GENERAL INFORMATION:
; APPLICANT: EMERY, DARYL A.
; APPLICANT: STRAUB, DARREN E.
; APPLICANT: WONDERLING, LAURA
; TITLE OF INVENTION: COMPOSITIONS PRODUCED USING ENTERIC PATHOGENS AND METHODS OF USE
; FILE REFERENCE: 293.00340101
; CURRENT APPLICATION NUMBER: US/10/946,647
; CURRENT FILING DATE: 2004-09-20
; PRIOR APPLICATION NUMBER: 60/504,119
; PRIOR FILING DATE: 2003-09-19
; NUMBER OF SEQ ID NOS: 1448
```

SOFTWARE: PatentIn version 3.3
; SEQ ID NO 558
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Salmonella enteritidis
US-10-946-647-558

Query Match 100.0%; Score 19; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
Db 1 AOGV 4

RESULT 20
US-10-946-647-855
; Sequence 855, Application US/10946647
; Publication No. US20050186217A1
; GENERAL INFORMATION:
; APPLICANT: EMERY, DARYL A.
; APPLICANT: STRAUB, DARREN E.
; APPLICANT: WONDERLING, LAURA
; TITLE OF INVENTION: COMPOSITIONS PRODUCED USING ENTERIC PATHOGENS AND METHODS OF USE
; FILE REFERENCE: 293.00340101
; CURRENT APPLICATION NUMBER: US/10/946,647
; CURRENT FILING DATE: 2004-09-20
; PRIOR APPLICATION NUMBER: 60/504,119
; PRIOR FILING DATE: 2003-09-19
; NUMBER OF SEQ ID NOS: 1448
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 855
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Escherichia coli
US-10-946-647-855

Query Match 100.0%; Score 19; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
Db 1 AOGV 4

RESULT 21
US-10-946-647-954
; Sequence 954, Application US/10946647
; Publication No. US20050186217A1
; GENERAL INFORMATION:
; APPLICANT: EMERY, DARYL A.
; APPLICANT: STRAUB, DARREN E.
; APPLICANT: WONDERLING, LAURA
; TITLE OF INVENTION: COMPOSITIONS PRODUCED USING ENTERIC PATHOGENS AND METHODS OF USE
; FILE REFERENCE: 293.00340101
; CURRENT APPLICATION NUMBER: US/10/946,647
; CURRENT FILING DATE: 2004-09-20
; PRIOR APPLICATION NUMBER: 60/504,119
; PRIOR FILING DATE: 2003-09-19
; NUMBER OF SEQ ID NOS: 1448
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 954
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Escherichia coli
US-10-946-647-954

Query Match 100.0%; Score 19; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
Db 1 AOGV 4

RESULT 22
US-10-122-675-28
; Sequence 28, Application US/10122675
; Publication No. US20030194712A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, David
; APPLICANT: Li, Weiqun
; APPLICANT: Lu, Henry
; APPLICANT: Rigel Pharmaceuticals, Inc.
; TITLE OF INVENTION: Methods for Identifying Polypeptide Factors Interacting
; FILE REFERENCE: 021044-002000US
; CURRENT APPLICATION NUMBER: US/10/122,675
; CURRENT FILING DATE: 2002-10-31
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 28
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: inosine
; OTHER INFORMATION: monophosphate dehydrogenase (IMPDH) peptide
US-10-122-675-28

Query Match 100.0%; Score 19; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 3.4e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
Db 4 AOGV 7

RESULT 23
US-09-957-806A-115
; Sequence 115, Application US/09957806A
; Publication No. US20050181446A1
; GENERAL INFORMATION:
; APPLICANT: Roggen, Erwin
; APPLICANT: Ernst, Steffen
; APPLICANT: Svendsen, Allan
; APPLICANT: Friis, Ebben
; APPLICANT: Osten, Claus
; TITLE OF INVENTION: PROTEIN VARIANTS HAVING MODIFIED IMMUNOGENICITY
; FILE REFERENCE: 10021.204-US
; CURRENT APPLICATION NUMBER: US/09/957,806A
; CURRENT FILING DATE: 2001-09-21
; NUMBER OF SEQ ID NOS: 248
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 115
; LENGTH: 13
; TYPE: PRT
; ORGANISM: Thermomyces
US-09-957-806A-115

Query Match 100.0%; Score 19; DB 3; Length 13;
Best Local Similarity 100.0%; Pred. No. 4.4e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
Db 6 AOGV 9

RESULT 24
US-10-394-980-6
; Sequence 6, Application US/10394980

```
; Publication No. US20040005633A1
; GENERAL INFORMATION:
; APPLICANT: Vandekerckhove, Joel
; APPLICANT: Gevaert, Kris
; TITLE OF INVENTION: METHODS AND APPARATUS FOR GEL-FREE QUALITATIVE AND
; FILE REFERENCE: VAV-001
; CURRENT APPLICATION NUMBER: US/10/394,980
; CURRENT FILING DATE: 2003-03-21
; PRIOR APPLICATION NUMBER: PCT/EP02/03368
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: US60/278,171
; PRIOR FILING DATE: 2001-03-22
; PRIOR APPLICATION NUMBER: US60/318,749
; PRIOR FILING DATE: 2001-09-12
; PRIOR APPLICATION NUMBER: US60/323,999
; PRIOR FILING DATE: 2001-09-20
; NUMBER OF SEQ ID NOS: 473
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6
; LENGTH: 19
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MISC FEATURE
; OTHER INFORMATION: part of AMBP_HUMAN ((P02760) alphae-1-microglobulin)
US-10-394-980-6
```

```
Query Match          100.0%; Score 19; DB 4; Length 19;
Best Local Similarity 100.0%; Pred. No. 6.4e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 AOCV 4
        ||||
Db       3 AOCV 6
```

```
RESULT 25
US-10-952-557-6
; Sequence 6, Application US/10952557
; Publication No. US20050196823A1
; GENERAL INFORMATION:
; APPLICANT: Vandekerckhove, Joel
; APPLICANT: Gevaert, Kris
; TITLE OF INVENTION: METHODS AND APPARATUS FOR GEL-FREE QUALITATIVE AND
; FILE REFERENCE: VAV-001
; CURRENT APPLICATION NUMBER: US/10/952,557
; CURRENT FILING DATE: 2004-09-28
; PRIOR APPLICATION NUMBER: US/10/394,980
; PRIOR FILING DATE: 2003-03-21
; PRIOR APPLICATION NUMBER: PCT/EP02/03368
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: US60/278,171
; PRIOR FILING DATE: 2001-03-22
; PRIOR APPLICATION NUMBER: US60/318,749
; PRIOR FILING DATE: 2001-09-12
; PRIOR APPLICATION NUMBER: US60/323,999
; PRIOR FILING DATE: 2001-09-20
; NUMBER OF SEQ ID NOS: 473
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6
; LENGTH: 19
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MISC FEATURE
; OTHER INFORMATION: part of AMBP_HUMAN ((P02760) alphae-1-microglobulin)
US-10-952-557-6
```

```
Query Match          100.0%; Score 19; DB 5; Length 19;
Best Local Similarity 100.0%; Pred. No. 6.4e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 AOCV 4
        ||||
Db       3 AOCV 6
```

```
RESULT 26
US-09-397-945-430
; Sequence 430, Application US/09397945
; Publication No. US20030065139A1
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc., et al.
; TITLE OF INVENTION: 95 Human secreted proteins
; FILE REFERENCE: P2027P1
; CURRENT APPLICATION NUMBER: US/09/397,945
; CURRENT FILING DATE: 1999-09-17
; PRIOR APPLICATION NUMBER: PCT/US99/05804
; PRIOR FILING DATE: 1999-03-18
; PRIOR APPLICATION NUMBER: 60/078,566
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/078,576
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/078,573
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/078,574
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/078,579
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/080,314
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/080,312
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/078,578
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/078,581
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/078,577
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/078,563
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/080,313
; PRIOR FILING DATE: 1998-04-01
; NUMBER OF SEQ ID NOS: 470
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 430
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-397-945-430
```

```
Query Match          100.0%; Score 19; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.8e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 AOCV 4
        ||||
Db       5 AOCV 8
```

```
RESULT 27
US-10-280-066-401
; Sequence 401, Application US/10280066
; Publication No. US20030180718A1
; GENERAL INFORMATION:
; APPLICANT: Pillutla, Renuka C.
; APPLICANT: Brissette, Renee
; APPLICANT: Spruyt, Michael
; APPLICANT: Dedova, Olga
; APPLICANT: Blume, Arthur J.
; APPLICANT: Prendergast, John
; APPLICANT: Goldstein, Neil I.
; TITLE OF INVENTION: TARGET SPECIFIC SCREENING AND ITS USE FOR IDENTIFYING TARGET BINDI
; FILE REFERENCE: 2598-4009US1
```

CURRENT APPLICATION NUMBER: US/10/280,066
CURRENT FILING DATE: 2002-10-24
PRIOR APPLICATION NUMBER: 60/345,471
PRIOR FILING DATE: 2001-10-24
NUMBER OF SEQ ID NOS: 537
SOFTWARE: PatentIn version 3.1
SEQ ID NO 401
LENGTH: 20
TYPE: PRT
ORGANISM: Escherichia coli
FEATURE:
NAME/KEY: MISC FEATURE
OTHER INFORMATION: VEGFR1-20F-3-B6
US-10-280-066-401

Query Match 100.0%; Score 19; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.8e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
DB 6 AOGV 9

RESULT 28
US-10-653-595-430
Sequence 430, Application US/10653595
Publication No. US20040048304A1
GENERAL INFORMATION:
APPLICANT: Ruben et. al.
TITLE OF INVENTION: 95 Human secreted proteins
FILE REFERENCE: PZ027P1C1
CURRENT APPLICATION NUMBER: US/10/653,595
CURRENT FILING DATE: 2003-09-03
PRIOR APPLICATION NUMBER: US 09/397945
PRIOR FILING DATE: 1999-09-17
PRIOR APPLICATION NUMBER: PCT/US99/05804
PRIOR FILING DATE: 1999-03-18
PRIOR APPLICATION NUMBER: 60/078,566
PRIOR FILING DATE: 1998-03-19
PRIOR APPLICATION NUMBER: 60/078,576
PRIOR FILING DATE: 1998-03-19
PRIOR APPLICATION NUMBER: 60/078,573
PRIOR FILING DATE: 1998-03-19
PRIOR APPLICATION NUMBER: 60/078,574
PRIOR FILING DATE: 1998-03-19
PRIOR APPLICATION NUMBER: 60/078,579
PRIOR FILING DATE: 1998-03-19
PRIOR APPLICATION NUMBER: 60/080,314
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080,312
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/078,578
PRIOR FILING DATE: 1998-03-19
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 470
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 430
LENGTH: 20
TYPE: PRT
ORGANISM: Homo sapiens
US-10-653-595-430

Query Match 100.0%; Score 19; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.8e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
DB 5 AOGV 8

RESULT 29

US-10-241-814-13
Sequence 13, Application US/10241814
Publication No. US2004005391A1
GENERAL INFORMATION:
APPLICANT: Katholieke Universiteit Nijmegen
TITLE OF INVENTION: Renal cell carcinoma antigen G-250-derived peptides that
elicit both CD4 and CD8 T-cell responses
FILE REFERENCE: 470-021777
CURRENT APPLICATION NUMBER: US/10/241,814
CURRENT FILING DATE: 2002-09-11
NUMBER OF SEQ ID NOS: 16
SEQ ID NO 13
LENGTH: 20
TYPE: PRT
ORGANISM: Homo sapiens
US-10-241-814-13

Query Match 100.0%; Score 19; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.8e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
DB 1 AOGV 4

RESULT 30
US-10-377-134-8
Sequence 8, Application US/10377134
Publication No. US20040096938A1
GENERAL INFORMATION:
APPLICANT: XU, Ming-Qun
APPLICANT: EVANS, Thomas C.
APPLICANT: PRADHAN, Sriharsha
APPLICANT: COMB, Donald G.
APPLICANT: PAULUS, Henry
APPLICANT: SUN, Luo
APPLICANT: CHEN, Lixin
APPLICANT: GHOSH, Inca
TITLE OF INVENTION: METHOD FOR GENERATING SPLIT, NON-TRANSFERABLE GENES
THAT ARE ABLE TO EXPRESS AN ACTIVE PROTEIN PRODUCT
FILE REFERENCE: NEB-219
CURRENT APPLICATION NUMBER: US/10/377,134
CURRENT FILING DATE: 2003-02-28
PRIOR APPLICATION NUMBER: 09/936,588
PRIOR FILING DATE: 2002-03-29
PRIOR APPLICATION NUMBER: PCT/US00/14122
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/135,677
PRIOR FILING DATE: 1999-05-24
NUMBER OF SEQ ID NOS: 138
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 8
LENGTH: 21
TYPE: PRT
ORGANISM: Escherichia coli
US-10-377-134-8

Query Match 100.0%; Score 19; DB 4; Length 21;
Best Local Similarity 100.0%; Pred. No. 7.1e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
DB 11 AOGV 14

RESULT 31
US-10-872-770-12
Sequence 12, Application US/10872770
Publication No. US20050164362A1
GENERAL INFORMATION:
APPLICANT: EDWARDS, ALED

APPLICANT: DHARMSI, AKIL
APPLICANT: DOMAGALIA, MEGAN
APPLICANT: PINDER, BENJAMIN
APPLICANT: ALAM, MUHAMMAD ZAHOO
APPLICANT: VEDADI, MASOOD
APPLICANT: WREZEL, OLGA
APPLICANT: HOUSTON, SIMON
APPLICANT: KIMBER, MATTHEW
APPLICANT: VALIER, FRANCOIS
APPLICANT: AMREY, DONALD E.
APPLICANT: BEATTIE, BRYAN
TITLE OF INVENTION: NOVEL PRIPRIED POLYPEPTIDES FROM PSEUDOMONAS AERUGINOSA
FILE REFERENCE: IPT-191.01
CURRENT APPLICATION NUMBER: US/10/872,770
CURRENT FILING DATE: 2004-06-21
PRIOR APPLICATION NUMBER: PCT/CA02/01977
PRIOR FILING DATE: 2002-12-20
PRIOR APPLICATION NUMBER: 60/370,755
PRIOR FILING DATE: 2002-04-08
PRIOR APPLICATION NUMBER: 60/344,112
PRIOR FILING DATE: 2001-12-21
NUMBER OF SEQ ID NOS: 19
SOFTWARE: PatentIn Ver. 3.2
SEQ ID NO 12
LENGTH: 21
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-10-872-770-12

Query Match 100.0%; Score 19; DB 5; Length 21;
Best Local Similarity 100.0%; Pred. No. 7.1e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACQV 4
12 ACQV 15

RESULT 32
US-10-097-065-597

Sequence 597, Application US/10097065
Publication No. US20030055236A1
GENERAL INFORMATION:
APPLICANT: Moore, Paul A. et al.
TITLE OF INVENTION: 110 Human Secreted Proteins
FILE REFERENCE: P2021P1
CURRENT APPLICATION NUMBER: US/10/097,065
CURRENT FILING DATE: 2002-03-14
PRIOR APPLICATION NUMBER: PCT/US98/27059
PRIOR FILING DATE: 1998-12-17
PRIOR APPLICATION NUMBER: 60/070,923
PRIOR FILING DATE: 1997-12-18
PRIOR APPLICATION NUMBER: 60/068,007
PRIOR FILING DATE: 1997-12-18
PRIOR APPLICATION NUMBER: 60/068,057
PRIOR FILING DATE: 1997-12-18
PRIOR APPLICATION NUMBER: 60/068,006
PRIOR FILING DATE: 1997-12-18
PRIOR APPLICATION NUMBER: 60/068,369
PRIOR FILING DATE: 1997-12-19
PRIOR APPLICATION NUMBER: 60/068,367
PRIOR FILING DATE: 1997-12-19
PRIOR APPLICATION NUMBER: 60/068,368
PRIOR FILING DATE: 1997-12-19
PRIOR APPLICATION NUMBER: 60/068,169
PRIOR FILING DATE: 1997-12-19
PRIOR APPLICATION NUMBER: 60/068,053
PRIOR FILING DATE: 1997-12-18
PRIOR APPLICATION NUMBER: 60/068,064
PRIOR FILING DATE: 1997-12-18
PRIOR APPLICATION NUMBER: 60/068,054
PRIOR FILING DATE: 1997-12-18
PRIOR APPLICATION NUMBER: 60/068,008

PRIOR FILING DATE: 1997-12-18
PRIOR APPLICATION NUMBER: 60/068,365
PRIOR FILING DATE: 1997-12-19
NUMBER OF SEQ ID NOS: 672
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 597
LENGTH: 23
TYPE: PRT
ORGANISM: Homo sapiens
US-10-097-065-597

Query Match 100.0%; Score 19; DB 4; Length 23;
Best Local Similarity 100.0%; Pred. No. 7.8e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACQV 4
3 ACQV 6

RESULT 33
US-10-372-876-597

Sequence 597, Application US/10372876
Publication No. US20030204071A1
GENERAL INFORMATION:
APPLICANT: Moore, Paul A. et al.
TITLE OF INVENTION: 110 Human Secreted Proteins
FILE REFERENCE: P2021P1
CURRENT APPLICATION NUMBER: US/10/372,876
CURRENT FILING DATE: 2003-02-26
PRIOR APPLICATION NUMBER: 09/334,595
PRIOR FILING DATE: 1999-06-17
PRIOR APPLICATION NUMBER: PCT/US98/27059
PRIOR FILING DATE: 1998-12-17
PRIOR APPLICATION NUMBER: 60/070,923
PRIOR FILING DATE: 1997-12-18
PRIOR APPLICATION NUMBER: 60/068,007
PRIOR FILING DATE: 1997-12-18
PRIOR APPLICATION NUMBER: 60/068,057
PRIOR FILING DATE: 1997-12-18
PRIOR APPLICATION NUMBER: 60/068,006
PRIOR FILING DATE: 1997-12-18
PRIOR APPLICATION NUMBER: 60/068,369
PRIOR FILING DATE: 1997-12-19
PRIOR APPLICATION NUMBER: 60/068,367
PRIOR FILING DATE: 1997-12-19
PRIOR APPLICATION NUMBER: 60/068,368
PRIOR FILING DATE: 1997-12-19
PRIOR APPLICATION NUMBER: 60/068,169
PRIOR FILING DATE: 1997-12-19
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 672
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 597
LENGTH: 23
TYPE: PRT
ORGANISM: Homo sapiens
US-10-372-876-597

Query Match 100.0%; Score 19; DB 4; Length 23;
Best Local Similarity 100.0%; Pred. No. 7.8e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACQV 4
3 ACQV 6

RESULT 34
US-09-880-748-2176
Sequence 2176, Application US/09880748
Publication No. US20030059937A1
GENERAL INFORMATION:


```

; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
; FILE REFERENCE: PF523
; CURRENT APPLICATION NUMBER: US/09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/212,210
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 3239
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2176
; LENGTH: 24
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-880-748-2176

Query Match      100.0%; Score 19; DB 3; Length 24;
Best Local Similarity 100.0%; Pred. No. 8.1e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 ACGV 4
        ||||
Db      17 ACGV 20

RESULT 35
US-09-880-748-2969
; Sequence 2969, Application US/09880748
; Publication No. US20030059937A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
; FILE REFERENCE: PF523
; CURRENT APPLICATION NUMBER: US/09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/212,210
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 3239
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2969
; LENGTH: 24
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-880-748-2969

Query Match      100.0%; Score 19; DB 3; Length 24;
Best Local Similarity 100.0%; Pred. No. 8.1e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 ACGV 4
        ||||
Db      17 ACGV 20

RESULT 36
US-10-293-418-2176
; Sequence 2176, Application US/10293418
; Publication No. US20030223996A1
```

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; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
; FILE REFERENCE: PF523P2
; CURRENT APPLICATION NUMBER: US/10/293,418
; PRIOR FILING DATE: 2002-11-27
; PRIOR APPLICATION NUMBER: 60/331,469
; PRIOR FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/340,817
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; PRIOR APPLICATION NUMBER: 60/212,210
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 2176
; LENGTH: 24
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-293-418-2176

Query Match      100.0%; Score 19; DB 4; Length 24;
Best Local Similarity 100.0%; Pred. No. 8.1e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 ACGV 4
        ||||
Db      17 ACGV 20

RESULT 37
US-10-293-418-2969
; Sequence 2969, Application US/10293418
; Publication No. US20030223996A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
; FILE REFERENCE: PF523P2
; CURRENT APPLICATION NUMBER: US/10/293,418
; PRIOR FILING DATE: 2002-11-27
; PRIOR APPLICATION NUMBER: 60/331,469
; PRIOR FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/340,817
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; PRIOR APPLICATION NUMBER: 60/212,210
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 2969
; LENGTH: 24
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-293-418-2969

Query Match      100.0%; Score 19; DB 4; Length 24;
Best Local Similarity 100.0%; Pred. No. 8.1e+02;
```

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 AGCV 4
Db 17 AGCV 20

RESULT 38

US-09-864-761-45997
Sequence 45997, Application US/09864761
Patent No. US20020048763A1
GENERAL INFORMATION:
APPLICANT: Penn, Sharon G.
APPLICANT: Rank, David R.
APPLICANT: Hanzel, David K.
APPLICANT: Chen, Wenheng
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
FILE REFERENCE: A601ca-X-1
CURRENT APPLICATION NUMBER: US/09/864,761
PRIOR FILING DATE: 2001-05-23,312
PRIOR APPLICATION NUMBER: US 60/180,312
PRIOR FILING DATE: 2000-02-04
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: US 09/632,366
PRIOR FILING DATE: 2000-08-03
PRIOR APPLICATION NUMBER: GB 24263.6
PRIOR FILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00665
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00668
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00663
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00662
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00661
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00670
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: US 60/234,687
PRIOR FILING DATE: 2000-09-21
PRIOR APPLICATION NUMBER: US 09/608,408
PRIOR FILING DATE: 2000-06-30
PRIOR APPLICATION NUMBER: US 09/774,203
PRIOR FILING DATE: 2001-01-29
NUMBER OF SEQ ID NOS: 49117
SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
SEQ ID NO 45997
LENGTH: 25
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: MAP TO AC012614.3
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.7
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.7
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 50
OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.7
OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.7
OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.8
US-09-864-761-45997

Query Match 100.0%; Score 19; DB 3; Length 25;
Best Local Similarity 100.0%; Pred. No. 8.5e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCV 4
Db 16 AGCV 19

RESULT 39

US-10-269-806-80
Sequence 80, Application US/10269806
Publication No. US20030176352A1
GENERAL INFORMATION:
APPLICANT: Min, Hosung
APPLICANT: Sitney, Karen
APPLICANT: Hartley, Cynthia
TITLE OF INVENTION: Peptides and Related Compounds Having Thrombopoietic Activity
FILE REFERENCE: A-750
CURRENT APPLICATION NUMBER: US/10/269,806
CURRENT FILING DATE: 2002-10-10
NUMBER OF SEQ ID NOS: 199
SOFTWARE: PatentIn version 3.1
SEQ ID NO 80
LENGTH: 25
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthesized Peptide Sequence
US-10-269-806-80

Query Match 100.0%; Score 19; DB 4; Length 25;
Best Local Similarity 100.0%; Pred. No. 8.5e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCV 4
Db 1 AGCV 4

RESULT 40
US-10-029-386-33755
Sequence 33755, Application US/10029386
Publication No. US20030194704A1
GENERAL INFORMATION:
APPLICANT: Penn, Sharon G.
APPLICANT: Rank, David R.
APPLICANT: Hanzel, David K.
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR G
FILE REFERENCE: A601ca-X-2
CURRENT APPLICATION NUMBER: US/10/029,386
CURRENT FILING DATE: 2001-12-20
NUMBER OF SEQ ID NOS: 34288
SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
SEQ ID NO 33755
LENGTH: 25
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: MAP TO AC007869.2
OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 0.4
US-10-029-386-33755

Query Match 100.0%; Score 19; DB 4; Length 25;
Best Local Similarity 100.0%; Pred. No. 8.5e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCV 4
Db 1 AGCV 4

```
RESULT 41
US-10-424-599-169158
; Sequence 169158, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovacic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223) B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 169158
; LENGTH: 29
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_123764C.1.pep
US-10-424-599-169158

Query Match          100.0%; Score 19; DB 4; Length 29;
Best Local Similarity 100.0%; Pred. No. 9.8e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
    |||
Db 20 AOGV 23

RESULT 42
US-10-424-599-281150
; Sequence 281150, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovacic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223) B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 281150
; LENGTH: 29
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_95900C.1.pep
US-10-424-599-281150

Query Match          100.0%; Score 19; DB 4; Length 29;
Best Local Similarity 100.0%; Pred. No. 9.8e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
    |||
Db 7 AOGV 10

RESULT 43
US-10-800-023-1
; Sequence 1, Application US/10800023
; Publication No. US2004025868A1
; GENERAL INFORMATION:
; APPLICANT: Steinman, Ralph
; APPLICANT: Nussenzweig, Michel
; APPLICANT: Hawiger, Daniel
; APPLICANT: Bonifaz, Laura
```

```
; TITLE OF INVENTION: Enhanced Antigen Delivery and Modulation
; FILE REFERENCE: 600-1-081CONC1P1
; CURRENT APPLICATION NUMBER: US/10/800,023
; CURRENT FILING DATE: 2004-03-14
; PRIOR APPLICATION NUMBER: 09/925,284
; PRIOR FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 09/586,704
; PRIOR FILING DATE: 2000-06-05
; PRIOR APPLICATION NUMBER: PCT/US96/01383
; PRIOR FILING DATE: 1996-01-31
; PRIOR APPLICATION NUMBER: 08/381,528
; PRIOR FILING DATE: 1995-01-31
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 30
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-800-023-1

Query Match          100.0%; Score 19; DB 5; Length 30;
Best Local Similarity 100.0%; Pred. No. 1e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
    |||
Db 15 AOGV 18

RESULT 44
US-10-424-599-261845
; Sequence 261845, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovacic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223) B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 261845
; LENGTH: 33
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_78469C.1.pep
US-10-424-599-261845

Query Match          100.0%; Score 19; DB 4; Length 33;
Best Local Similarity 100.0%; Pred. No. 1.1e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
    |||
Db 26 AOGV 29

RESULT 45
US-10-425-115-199464
; Sequence 199464, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovacic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
```

FILE REFERENCE: 38-21(53222)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 199464
LENGTH: 34
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
NAME/KEY: unsure
LOCATION: (1)..(34)
OTHER INFORMATION: unsure at all Xaa locations
FEATURE:
OTHER INFORMATION: Clone ID: MRT4577_113486C.1.pep
US-10-425-115-199464

Query Match 100.0%; Score 19; DB 4; Length 34;
Best Local Similarity 100.0%; Pred. No. 1.2e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
Db 14 ACGV 17

RESULT 46
US-10-424-599-242322
Sequence 242322, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La Rosa Thomas J
APPLICANT: Kovalic David K
APPLICANT: Zhou Yihua
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53223)B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 242322
LENGTH: 35
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT3847_60845C.1.pep
US-10-424-599-242322

Query Match 100.0%; Score 19; DB 4; Length 35;
Best Local Similarity 100.0%; Pred. No. 1.2e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
Db 13 ACGV 16

RESULT 47
US-10-252-773-11
Sequence 11, Application US/10252773
Publication No. US20030131383A1
GENERAL INFORMATION:
APPLICANT: EVERETT, NICHOLAS P.
APPLICANT: LI, QUNIGSHUN
APPLICANT: LAWRENCE, CHRISTOPHER
APPLICANT: DAVIES, MAELOR H.
TITLE OF INVENTION: PEPTIDES WITH ENHANCED STABILITY TO PROTEASE
TITLE OF INVENTION: DEGRADATION
FILE REFERENCE: INTERLINK 3.0-003
CURRENT APPLICATION NUMBER: US/10/252,773
CURRENT FILING DATE: 2002-09-23
PRIORITY APPLICATION NUMBER: 60/106,373
PRIORITY FILING DATE: 1998-10-30

PRIOR APPLICATION NUMBER: 60/106,573
PRIOR FILING DATE: 1998-11-02
NUMBER OF SEQ ID NOS: 27
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 11
LENGTH: 37
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
OTHER INFORMATION: antimicrobial peptide
US-10-252-773-11

Query Match 100.0%; Score 19; DB 4; Length 37;
Best Local Similarity 100.0%; Pred. No. 1.3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
Db 6 ACGV 9

RESULT 48
US-10-120-319-22
Sequence 22, Application US/10120319
Publication No. US20020164749A1
GENERAL INFORMATION:
APPLICANT: Taylor, Diane E.
APPLICANT: Ge, Zhongming
TITLE OF INVENTION: ALPHA-1, 3-FUCOSYLTRANSFERASE
FILE REFERENCE: 07254/049001
CURRENT APPLICATION NUMBER: US/10/120,319
CURRENT FILING DATE: 2002-04-09
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/092,315
PRIOR FILING DATE: EARLIER FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/048,857
PRIOR FILING DATE: EARLIER FILING DATE: 1997-06-06
NUMBER OF SEQ ID NOS: 22
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 22
LENGTH: 38
TYPE: PRT
ORGANISM: Helicobacter pylori
US-10-120-319-22

Query Match 100.0%; Score 19; DB 4; Length 38;
Best Local Similarity 100.0%; Pred. No. 1.3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
Db 35 ACGV 38

RESULT 49
US-10-189-977-22
Sequence 22, Application US/10189977
Publication No. US20030166211A1
GENERAL INFORMATION:
APPLICANT: Taylor, Diane E.
APPLICANT: Ge, Zhongming
TITLE OF INVENTION: ALPHA-1, 3-FUCOSYLTRANSFERASE
FILE REFERENCE: 07254/049001
CURRENT APPLICATION NUMBER: US/10/189,977
CURRENT FILING DATE: 2002-07-03
PRIOR APPLICATION NUMBER: US/09/092,315
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: US 60/048,857
PRIOR FILING DATE: 1997-06-06
NUMBER OF SEQ ID NOS: 22
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 22
LENGTH: 38

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; TYPE: PRT
; ORGANISM: Helicobacter pylori
US-10-189-977-22
Query Match          100.0%; Score 19; DB 4; Length 38;
Best Local Similarity 100.0%; Pred. No. 1.3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 A QGV 4
        |||
Db       35 A QGV 38

RESULT 50
US-10-392-098-22
; Sequence 22, Application US/10392098
; Publication No. US20030166212A1
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane B.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING ALPHA-1,3
; TITLE OF INVENTION: FUCOSYLTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING AND
; TITLE OF INVENTION: EXPRESSING THEM (amended)
; FILE REFERENCE: 07254-049002
; CURRENT APPLICATION NUMBER: US/10/392,098
; CURRENT FILING DATE: 2003-03-17
; PRIOR APPLICATION NUMBER: US/09/733,524A
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/092,315
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: US 60/048,857
; PRIOR FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 22
; LENGTH: 38
; TYPE: PRT
; ORGANISM: Helicobacter pylori
US-10-392-098-22
Query Match          100.0%; Score 19; DB 4; Length 38;
Best Local Similarity 100.0%; Pred. No. 1.3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 A QGV 4
        |||
Db       35 A QGV 38

RESULT 51
US-10-029-386-33511
; Sequence 33511, Application US/10029386
; Publication No. US20030194704A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR G
; FILE REFERENCE: AECMICA-X-2
; CURRENT APPLICATION NUMBER: US/10/029,386
; CURRENT FILING DATE: 2001-12-20
; NUMBER OF SEQ ID NOS: 34288
; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 33511
; LENGTH: 38
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AC003955.1
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 0.43
US-10-029-386-33511
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Query Match          100.0%; Score 19; DB 4; Length 38;
Best Local Similarity 100.0%; Pred. No. 1.3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 A QGV 4
        |||
Db       24 A QGV 27

RESULT 52
US-10-425-115-195035
; Sequence 195035, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovacic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(5322)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 195035
; LENGTH: 40
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_109461C.1.dep
US-10-425-115-195035
Query Match          100.0%; Score 19; DB 4; Length 40;
Best Local Similarity 100.0%; Pred. No. 1.4e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 A QGV 4
        |||
Db       22 A QGV 25

RESULT 53
US-10-282-122A-45229
; Sequence 45229, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Zyskind, Kari
; APPLICANT: Wall, Judith
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: EUTRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
```

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; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 45229
; LENGTH: 41
; TYPE: PRT
; ORGANISM: Acinetobacter baumannii
; US-10-282-122A-45229

Query Match
Best Local Similarity 100.0%; Score 19; DB 4; Length 41;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
DB 13 ACGV 16

RESULT 54
US-10-425-115-257966
; Sequence 257966, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 257966
; LENGTH: 41
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_166852C.1.pep
; US-10-425-115-257966

Query Match
Best Local Similarity 100.0%; Score 19; DB 4; Length 41;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
DB 26 ACGV 29

RESULT 55
US-10-773-446-115
; Sequence 115, Application US/10773446
; Publication No. US20050176662A1
; GENERAL INFORMATION:
; APPLICANT: INANA, GEORGE
; APPLICANT: McLAREN, MARGARET
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DETECTING AND TREATING RETINAL
; FILE REFERENCE: 39533-192229
; CURRENT APPLICATION NUMBER: US/10/773,446
; CURRENT FILING DATE: 2004-02-09
; NUMBER OF SEQ ID NOS: 131
; SOFTWARE: PatentIn version 3.2
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; SEQ ID NO 115
; LENGTH: 41
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-773-446-115

Query Match
Best Local Similarity 100.0%; Score 19; DB 5; Length 41;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
DB 12 ACGV 15

RESULT 56
US-10-425-115-280416
; Sequence 280416, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 280416
; LENGTH: 43
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_18840C.1.pep
; US-10-425-115-280416

Query Match
Best Local Similarity 100.0%; Score 19; DB 4; Length 43;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
DB 31 ACGV 34

RESULT 57
US-10-425-115-256443
; Sequence 256443, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 256443
; LENGTH: 44
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_165468C.1.pep
; US-10-425-115-256443

Query Match
Best Local Similarity 100.0%; Score 19; DB 4; Length 44;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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OY 1 AOGV 4
|||
DB 15 AOGV 18

RESULT 58
US-09-397-945-424
; Sequence 424, Application US/09397945
; Publication No. US20030065139A1
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc. et al.
; TITLE OF INVENTION: 95 Human secreted proteins
; FILE REFERENCE: P2027P1
; CURRENT APPLICATION NUMBER: US/09/397,945
; PRIOR FILING DATE: 1999-09-17
; PRIOR APPLICATION NUMBER: PCT/US99/05804
; PRIOR FILING DATE: 1999-03-18
; PRIOR APPLICATION NUMBER: 60/078,566
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/078,576
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/078,573
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/078,574
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/078,579
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/080,314
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/080,312
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/078,578
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/078,581
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/078,577
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/078,563
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/080,313
; PRIOR FILING DATE: 1998-04-01
; NUMBER OF SEQ ID NOS: 470
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 424
; LENGTH: 48
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-397-945-424

Query Match 100.0%; Score 19; DB 3; Length 48;
Best Local Similarity 100.0%; Pred. No. 1.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AOGV 4
|||
DB 33 AOGV 36

RESULT 59
US-10-424-599-203996
; Sequence 203996, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; PRIOR FILING DATE: 2003-04-28

; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 203996
; LENGTH: 48
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_26235C.1.pdp
US-10-424-599-203996

Query Match 100.0%; Score 19; DB 4; Length 48;
Best Local Similarity 100.0%; Pred. No. 1.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AOGV 4
|||
DB 12 AOGV 15

RESULT 60
US-10-424-599-216178
; Sequence 216178, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; PRIOR FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 216178
; LENGTH: 48
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_37238C.1.pdp
US-10-424-599-216178

Query Match 100.0%; Score 19; DB 4; Length 48;
Best Local Similarity 100.0%; Pred. No. 1.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AOGV 4
|||
DB 10 AOGV 13

RESULT 61
US-10-653-595-424
; Sequence 424, Application US/10653595
; Publication No. US20040048304A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et. al.
; TITLE OF INVENTION: 95 Human secreted proteins
; FILE REFERENCE: P2027P1C1
; CURRENT APPLICATION NUMBER: US/10/653,595
; PRIOR FILING DATE: 2003-09-03
; PRIOR APPLICATION NUMBER: US 09/397945
; PRIOR FILING DATE: 1999-09-17
; PRIOR APPLICATION NUMBER: PCT/US99/05804
; PRIOR FILING DATE: 1999-03-18
; PRIOR APPLICATION NUMBER: 60/078,566
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/078,576
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/078,573
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/078,574
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/078,579

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; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/080,314
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/080,312
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/078,578
; PRIOR FILING DATE: 1998-03-19
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 470
; SOFTWARE: Patentn Ver. 2.0
; SEQ ID NO 424
; LENGTH: 48
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-653-595-424

Query Match
Best Local Similarity 100.0%; Score 19; DB 4; Length 48;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
Db 33 ACGV 36

RESULT 62
US-10-425-115-339468
; Sequence 339468, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 339468
; LENGTH: 48
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_72766C.1.pcp
US-10-425-115-339468

Query Match
Best Local Similarity 100.0%; Score 19; DB 4; Length 48;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
Db 6 ACGV 9

RESULT 63
US-10-029-386-27682
; Sequence 27682, Application US/10029386
; Publication No. US20030194704A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR G
; FILE REFERENCE: AROMICA-X-2
; CURRENT APPLICATION NUMBER: US/10/029,386
; CURRENT FILING DATE: 2001-12-20
; NUMBER OF SEQ ID NOS: 34288
; SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 27682
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; LENGTH: 49
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AL139135.2
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.3
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.3
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.9
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 2.2
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2.3
; OTHER INFORMATION: SWISSPROT HIT: P70213, EVALUATE 1.00e-07
US-10-029-386-27682

Query Match
Best Local Similarity 100.0%; Score 19; DB 4; Length 49;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
Db 44 ACGV 47

RESULT 64
US-10-424-599-225119
; Sequence 225119, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 225119
; LENGTH: 49
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT1847_45312C.1.pcp
US-10-424-599-225119

Query Match
Best Local Similarity 100.0%; Score 19; DB 4; Length 49;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
Db 25 ACGV 28

RESULT 65
US-09-866-066-35
; Sequence 35, Application US/09866066
; Publication No. US20030113888A1
; GENERAL INFORMATION:
; APPLICANT: Benjamin, Christopher
; APPLICANT: Roberts, Steve
; APPLICANT: Ruble, Cara
; APPLICANT: Gotow, Lisa
; APPLICANT: Karnovsky, Alla
; TITLE OF INVENTION: Human Ion Channels
; FILE REFERENCE: 00229.US1
; CURRENT APPLICATION NUMBER: US/09/866,066
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: 60/207,152
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/207,257
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/207,119
```



```
;; PRIOR FILING DATE: 2000-05-26
;; NUMBER OF SEQ ID NOS: 42
;; SOFTWARE: Patentin version 3.0
;; SEQ ID NO 35
;; LENGTH: 51
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-09-866-066-35

Query Match
Best Local Similarity 100.0%; Score 19; DB 3; Length 51;
Pred. No. 1.7e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
Db 39 AOGV 42

RESULT 66
US-10-424-599-193989
; Sequence 193989, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J
; APPLICANT: Kovalic, David K
; APPLICANT: Zhou, Yihua
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 193989
; LENGTH: 51
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MKT3847_17199C.1.pep
US-10-424-599-193989

Query Match
Best Local Similarity 100.0%; Score 19; DB 4; Length 51;
Pred. No. 1.7e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
Db 13 AOGV 16

RESULT 67
US-10-969-677-35
; Sequence 35, Application US/10969677
; Publication No. US20050176098A1
; GENERAL INFORMATION:
; APPLICANT: Benjamin, Christopher
; APPLICANT: Roberde, Steve
; APPLICANT: Ruble, Cara
; APPLICANT: Gotow, Lisa
; APPLICANT: Karnovsky, Alla
; TITLE OF INVENTION: Human Ion Channels
; FILE REFERENCE: 00229, US1
; CURRENT APPLICATION NUMBER: US/10/969,677
; CURRENT FILING DATE: 2004-10-20
; PRIOR APPLICATION NUMBER: US/09/866,066
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/207,152
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/207,257
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/207,119
; PRIOR FILING DATE: 2000-05-26
; NUMBER OF SEQ ID NOS: 42
```

```
;; SOFTWARE: Patentin version 3.0
;; SEQ ID NO 35
;; LENGTH: 51
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-10-969-677-35

Query Match
Best Local Similarity 100.0%; Score 19; DB 5; Length 51;
Pred. No. 1.7e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
Db 39 AOGV 42

RESULT 68
US-10-425-115-314288
; Sequence 314288, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 314288
; LENGTH: 52
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MKT4577_49690C.1.pep
US-10-425-115-314288

Query Match
Best Local Similarity 100.0%; Score 19; DB 4; Length 52;
Pred. No. 1.8e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
Db 40 AOGV 43

RESULT 69
US-09-925-302-824
; Sequence 824, Application US/09925302
; Patent No. US20020044941A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA104
; CURRENT APPLICATION NUMBER: US/09/925,302
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05918
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 896
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 824
; LENGTH: 53
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (16)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
```

```
; LOCATION: (46)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (47)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (52)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (53)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; US-09-925-302-824
```

```
Query Match      100.0%; Score 19; DB 3; Length 53;
Best Local Similarity 100.0%; Pred. No. 1.8e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 ACGV 4
        |||
Db      39 ACGV 42
```

```
RESULT 70
; US-09-925-302-824
; Sequence 824, Application US/09925302
; Publication No. US20030064072A9
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA104
; CURRENT APPLICATION NUMBER: US/09/925,302
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05918
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 896
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 824
; LENGTH: 53
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (16)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (46)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (47)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (52)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (53)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; US-09-925-302-824
```

```
Query Match      100.0%; Score 19; DB 3; Length 53;
Best Local Similarity 100.0%; Pred. No. 1.8e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 ACGV 4
        |||
Db      39 ACGV 42
```

```
RESULT 71
; US-10-016-768-3
; Sequence 3, Application US/10016768
; Publication No. US2002014243A1
```

```
; GENERAL INFORMATION:
; APPLICANT: Baehrecke, Eric H.
; TITLE OF INVENTION: GENES REGULATING PROGRAMMED CELL DEATH
; FILE REFERENCE: 4115-131
; CURRENT APPLICATION NUMBER: US/10/016,768
; CURRENT FILING DATE: 2001-10-29
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 54
; TYPE: PRT
; ORGANISM: T. nigroviridis
; US-10-016-768-3
```

```
Query Match      100.0%; Score 19; DB 4; Length 54;
Best Local Similarity 100.0%; Pred. No. 1.8e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 ACGV 4
        |||
Db      36 ACGV 39
```

```
RESULT 72
; US-09-764-877-1474
; Sequence 1474, Application US/09764877
; Patent No. US20020147140A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC005
; CURRENT APPLICATION NUMBER: US/09/764,877
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 4031
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1474
; LENGTH: 55
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-764-877-1474
```

```
Query Match      100.0%; Score 19; DB 3; Length 55;
Best Local Similarity 100.0%; Pred. No. 1.9e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 ACGV 4
        |||
Db      17 ACGV 20
```

```
RESULT 73
; US-10-242-515-1474
; Sequence 1474, Application US/10242515
; Publication No. US20040009488A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC005C1
; CURRENT APPLICATION NUMBER: US/10/242,515
; CURRENT FILING DATE: 2002-09-13
; PRIOR APPLICATION NUMBER: 09/764,877
; PRIOR FILING DATE: 2001-01-17
; PRIOR APPLICATION NUMBER: 60/179,065
; PRIOR FILING DATE: 2000-01-31
; PRIOR APPLICATION NUMBER: 60/180,628
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: 60/214,886
; PRIOR FILING DATE: 2000-06-28
; PRIOR APPLICATION NUMBER: 60/217,487
; PRIOR FILING DATE: 2000-07-11
; PRIOR APPLICATION NUMBER: 60/225,758
; PRIOR FILING DATE: 2000-08-14
```

```
;; PRIOR APPLICATION NUMBER: 60/220,963
;; PRIOR FILING DATE: 2000-07-26
;; PRIOR APPLICATION NUMBER: 60/217,496
;; PRIOR FILING DATE: 2000-07-11
;; PRIOR APPLICATION NUMBER: 60/225,447
;; PRIOR FILING DATE: 2000-08-14
;; PRIOR APPLICATION NUMBER: 60/218,290
;; PRIOR FILING DATE: 2000-07-14
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 4031
;; SOFTWARE: PatentIn Ver. 2.0
;; SEQ ID NO 1474
;; LENGTH: 55
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-10-242-515-1474

Query Match
Best Local Similarity 100.0%; Score 19; DB 4; Length 55;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AOGV 4
Db 17 AOGV 20

RESULT 74
US-10-425-115-279298
;; Sequence 279298, Application US/10425115
;; Publication No. US20040214272A1
;; GENERAL INFORMATION:
;; APPLICANT: La Rosa, Thomas J.
;; APPLICANT: Kovalic, David K.
;; APPLICANT: Zhou, Yihua
;; APPLICANT: Cao, Yongwei
;; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
;; TITLE OF INVENTION: Placenta
;; FILE REFERENCE: 38-21(53222)B
;; CURRENT APPLICATION NUMBER: US/10/425,115
;; CURRENT FILING DATE: 2003-04-28
;; NUMBER OF SEQ ID NOS: 369326
;; SEQ ID NO 279298
;; LENGTH: 55
;; TYPE: PRT
;; ORGANISM: Zee mayas
;; FEATURE:
;; OTHER INFORMATION: Clone ID: MRT4577_18629C.1.pcp
US-10-425-115-279298

Query Match
Best Local Similarity 100.0%; Score 19; DB 4; Length 55;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AOGV 4
Db 49 AOGV 52

RESULT 75
US-09-864-761-44380
;; Sequence 44380, Application US/09864761
;; Patent No. US20020048763A1
;; GENERAL INFORMATION:
;; APPLICANT: Penn, Sharon G.
;; APPLICANT: Rank, David R.
;; APPLICANT: Hanzel, David K.
;; APPLICANT: Chen, Wensheng
;; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
;; TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
;; FILE REFERENCE: Aecomica-X-1
;; CURRENT APPLICATION NUMBER: US/09/864,761
;; CURRENT FILING DATE: 2001-05-23
;; PRIOR APPLICATION NUMBER: US 60/180,312
```

```
;; PRIOR FILING DATE: 2000-02-04
;; PRIOR APPLICATION NUMBER: US 60/207,456
;; PRIOR FILING DATE: 2000-05-26
;; PRIOR APPLICATION NUMBER: US 09/632,366
;; PRIOR FILING DATE: 2000-08-03
;; PRIOR APPLICATION NUMBER: GB 24263.6
;; PRIOR FILING DATE: 2000-10-04
;; PRIOR APPLICATION NUMBER: US 60/236,359
;; PRIOR FILING DATE: 2000-09-27
;; PRIOR APPLICATION NUMBER: PCT/US01/00666
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00667
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00664
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00669
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00665
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00668
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00663
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00662
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00661
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00670
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: US 60/234,687
;; PRIOR FILING DATE: 2000-09-21
;; PRIOR APPLICATION NUMBER: US 09/608,408
;; PRIOR FILING DATE: 2000-06-30
;; PRIOR APPLICATION NUMBER: US 09/774,203
;; PRIOR FILING DATE: 2001-01-29
;; NUMBER OF SEQ ID NOS: 49117
;; SOFTWARE: Annonax Sequence Listing Engine vers. 1.1
;; SEQ ID NO 44380
;; LENGTH: 56
;; TYPE: PRT
;; ORGANISM: Homo sapiens
;; FEATURE:
;; OTHER INFORMATION: MAP TO AC004816.1
;; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.2
;; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.3
;; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.2
;; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.2
;; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.4
;; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.4
;; OTHER INFORMATION: EST HUMAN HIT: BE727589.1, EVALUATE 1.20e+00
;; OTHER INFORMATION: SWISSPROT HIT: P08325, EVALUATE 4.60e+00
US-09-864-761-44380

Query Match
Best Local Similarity 100.0%; Score 19; DB 3; Length 56;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AOGV 4
Db 6 AOGV 9

RESULT 76
US-10-116-255-32
;; Sequence 32, Application US/10116255
;; Publication No. US20030036646A1
;; GENERAL INFORMATION:
;; APPLICANT: Ni et al.
;; TITLE OF INVENTION: Uncoupling Protein Polynucleotides, Polypeptides, and
;; TITLE OF INVENTION: Antibodies
;; FILE REFERENCE: PT0099P1
;; CURRENT APPLICATION NUMBER: US/10/116,255
;; CURRENT FILING DATE: 2002-04-05
```

;; PRIOR APPLICATION NUMBER: 09/685,897
;; PRIOR FILING DATE: 2000-10-11
;; PRIOR APPLICATION NUMBER: PCT/US00/09534
;; PRIOR FILING DATE: 2000-04-06
;; PRIOR APPLICATION NUMBER: 60/128,701
;; PRIOR FILING DATE: 1999-04-09
;; PRIOR APPLICATION NUMBER: 60/142,821
;; PRIOR FILING DATE: 1999-07-08
;; PRIOR APPLICATION NUMBER: 60/149,448
;; PRIOR FILING DATE: 1999-08-18
;; PRIOR APPLICATION NUMBER: 60/164,751
;; PRIOR FILING DATE: 1999-11-12
;; NUMBER OF SEQ ID NOS: 66
;; SOFTWARE: PatentIn Ver. 2.0
;; SEQ ID NO 32
;; LENGTH: 56
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-10-116-255-32

Query Match 100.0%; Score 19; DB 4; Length 56;
Best Local Similarity 100.0%; Pred. No. 1.9e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AOGV 4
Db 39 AOGV 42

RESULT 77
US-10-264-049-3884
;; Sequence 3884, Application US/10264049
;; Publication No. US20040005579A1
;; GENERAL INFORMATION:
;; APPLICANT: Biree et al.
;; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
;; FILE REFERENCE: PA133P1
;; CURRENT APPLICATION NUMBER: US/10/264,049
;; CURRENT FILING DATE: 2002-10-04
;; PRIOR APPLICATION NUMBER: PCT/US01/18569
;; PRIOR FILING DATE: 2001-06-07
;; PRIOR APPLICATION NUMBER: US 60/209,467
;; PRIOR FILING DATE: 2000-06-07
;; NUMBER OF SEQ ID NOS: 4360
;; SOFTWARE: PatentIn Ver. 3.1
;; SEQ ID NO 3884
;; LENGTH: 56
;; TYPE: PRT
;; ORGANISM: Homo sapiens
;; FEATURE:
;; NAME/KEY: MISC_FEATURE
;; LOCATION: (3)
;; OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
;; FEATURE:
;; NAME/KEY: MISC_FEATURE
;; LOCATION: (6)
;; OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
;; FEATURE:
;; NAME/KEY: MISC_FEATURE
;; LOCATION: (7)
;; OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
;; FEATURE:
;; NAME/KEY: MISC_FEATURE
;; LOCATION: (19)
;; OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
;; FEATURE:
;; NAME/KEY: MISC_FEATURE
;; LOCATION: (22)
;; OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
;; FEATURE:
;; NAME/KEY: MISC_FEATURE
;; LOCATION: (37)
;; OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids

;; FEATURE:
;; NAME/KEY: MISC_FEATURE
;; LOCATION: (43)
;; OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
;; FEATURE:
;; NAME/KEY: MISC_FEATURE
;; LOCATION: (54)
;; OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
US-10-264-049-3884

Query Match 100.0%; Score 19; DB 4; Length 56;
Best Local Similarity 100.0%; Pred. No. 1.9e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AOGV 4
Db 28 AOGV 31

RESULT 78
US-10-424-599-279039

;; Sequence 279039, Application US/10424599
;; Publication No. US20040031072A1
;; GENERAL INFORMATION:
;; APPLICANT: La Rosa Thomas J
;; APPLICANT: Zhou Yihua

;; APPLICANT: Cao Yongwei
;; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With

;; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
;; FILE REFERENCE: 38-21(53223)B
;; CURRENT APPLICATION NUMBER: US/10/424,599
;; CURRENT FILING DATE: 2003-04-28
;; NUMBER OF SEQ ID NOS: 285684
;; SEQ ID NO 279039
;; LENGTH: 56
;; TYPE: PRT
;; ORGANISM: Glycine max

;; FEATURE:
;; OTHER INFORMATION: Clone ID: PAT_MRT3847_93996C.1.pep

US-10-424-599-279039

Query Match 100.0%; Score 19; DB 4; Length 56;
Best Local Similarity 100.0%; Pred. No. 1.9e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AOGV 4
Db 47 AOGV 50

RESULT 79

US-10-425-115-263648

;; Sequence 263648, Application US/10425115
;; Publication No. US20040214272A1
;; GENERAL INFORMATION:
;; APPLICANT: La Rosa, Thomas J.

;; APPLICANT: Kovallit, David K.
;; APPLICANT: Zhou, Yihua
;; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With

;; TITLE OF INVENTION: Plants
;; FILE REFERENCE: 38-21(53222)B
;; CURRENT APPLICATION NUMBER: US/10/425,115
;; CURRENT FILING DATE: 2003-04-28
;; NUMBER OF SEQ ID NOS: 369326
;; SEQ ID NO 263648
;; LENGTH: 56
;; TYPE: PRT
;; ORGANISM: Zea mays

;; FEATURE:
;; OTHER INFORMATION: Clone ID: MRT4577_172059C.1.pep

US-10-425-115-263648

Query Match 100.0%; Score 19; DB 4; Length 56;
Best Local Similarity 100.0%; Pred. No. 1.9e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
Db 44 AOGV 47

RESULT 80

US-10-424-599-182978
; Sequence 182978, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 182978
; LENGTH: 57
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(57)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_136242C.1.pep
US-10-424-599-182978

Query Match 100.0%; Score 19; DB 4; Length 57;
Best Local Similarity 100.0%; Pred. No. 1.9e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
Db 3 AOGV 6

RESULT 81

US-10-424-599-249716
; Sequence 249716, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 249716
; LENGTH: 57
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(57)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_67522C.1.pep
US-10-424-599-249716

Query Match 100.0%; Score 19; DB 4; Length 57;
Best Local Similarity 100.0%; Pred. No. 1.9e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
Db 19 AOGV 22

RESULT 82

US-10-029-386-33617
; Sequence 33617, Application US/10029386
; Publication No. US20030194704A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Hanzel, David R.
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR G
; FILE REFERENCE: AECOMICA-X-2
; CURRENT APPLICATION NUMBER: US/10/029,386
; CURRENT FILING DATE: 2001-12-20
; NUMBER OF SEQ ID NOS: 34288
; SOFTWARE: Annonmax Sequence Listing Engine vers. 1.1
; SEQ ID NO 33617
; LENGTH: 58
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO CHR7.1
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 0.47
; OTHER INFORMATION: SWISSPROT HIT: Q14168, EVALU8 7.00e-20
US-10-029-386-33617

Query Match 100.0%; Score 19; DB 4; Length 58;
Best Local Similarity 100.0%; Pred. No. 2e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
Db 31 AOGV 34

RESULT 83

US-10-425-115-192059
; Sequence 192059, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 192059
; LENGTH: 58
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_106743C.1.pep
US-10-425-115-192059

Query Match 100.0%; Score 19; DB 4; Length 58;
Best Local Similarity 100.0%; Pred. No. 2e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
Db 1 AOGV 4

RESULT 84
US-10-425-115-219711
; Sequence 219711, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 219711
; LENGTH: 58
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_131965C.1.pep
US-10-425-115-219711

Query Match 100.0%; Score 19; DB 4; Length 58;
Best Local Similarity 100.0%; Pred. No. 2e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
 |||||
Db 31 ACGV 34

RESULT 85
US-10-425-115-336290
; Sequence 336290, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 336290
; LENGTH: 58
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(58)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_69805C.1.pep
US-10-425-115-336290

Query Match 100.0%; Score 19; DB 4; Length 58;
Best Local Similarity 100.0%; Pred. No. 2e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
 |||||
Db 4 ACGV 7

RESULT 86
US-09-925-298-590
; Sequence 590, Application US/09925298

; Publication No. US20020039764A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA103
; CURRENT APPLICATION NUMBER: US/09/925,298
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05881
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 846
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 590
; LENGTH: 59
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-925-298-590

Query Match 100.0%; Score 19; DB 3; Length 59;
Best Local Similarity 100.0%; Pred. No. 2e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
 |||||
Db 13 ACGV 16

RESULT 87
US-10-102-806-590
; Sequence 590, Application US/10102806
; Publication No. US20030054421A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA103P1C1
; CURRENT APPLICATION NUMBER: US/10/102,806
; CURRENT FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: 09/925,298
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05881
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 846
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 590
; LENGTH: 59
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-102-806-590

Query Match 100.0%; Score 19; DB 4; Length 59;
Best Local Similarity 100.0%; Pred. No. 2e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
 |||||
Db 13 ACGV 16

RESULT 88
US-10-029-386-28279
; Sequence 28279, Application US/10029386
; Publication No. US20030194704A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR GI
; TITLE OF INVENTION: EXPRESSION ANALYSIS TWO
; FILE REFERENCE: AEOMICA-X-2
; CURRENT APPLICATION NUMBER: US/10/029,386

```
;; CURRENT FILING DATE: 2001-12-20
;; NUMBER OF SEQ ID NOS: 34288
;; SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
;; SEQ ID NO 28279
;; LENGTH: 59
;; TYPE: PRT
;; ORGANISM: Homo sapiens
;; FEATURE:
;; OTHER INFORMATION: MAP TO CHR22_184.2.0
;; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.1
;; OTHER INFORMATION: EXPRESSED IN HEPA, SIGNAL = 0.61
;; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.1
;; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.2
;; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 0.95
;; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 0.98
;; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.1
;; OTHER INFORMATION: SWISSPROT HIT: P13463, EVALU6 6.10e+00
US-10-029-386-28279

Query Match          100.0%; Score 19; DB 4; Length 59;
Best Local Similarity 100.0%; Pred. No. 2e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy      1 AOGV 4
        ||||
Db      52 AOGV 55

RESULT 89
US-10-425-115-278273
;; Sequence 278273, Application US/10425115
;; Publication No. US20040214272A1
;; GENERAL INFORMATION:
;; APPLICANT: La Rosa, Thomas J.
;; APPLICANT: Kovalic, David K.
;; APPLICANT: Zhou, Yihua
;; APPLICANT: Cao, Yongwei
;; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;; TITLE OF INVENTION: Plant8
;; FILE REFERENCE: 38-21(53222)B
;; CURRENT APPLICATION NUMBER: US/10/425,115
;; CURRENT FILING DATE: 2003-04-28
;; NUMBER OF SEQ ID NOS: 369326
;; SEQ ID NO 278273
;; LENGTH: 59
;; TYPE: PRT
;; ORGANISM: Zea mays
;; FEATURE:
;; OTHER INFORMATION: Clone ID: MRT4577_18535C.1.pep
US-10-425-115-278273

Query Match          100.0%; Score 19; DB 4; Length 59;
Best Local Similarity 100.0%; Pred. No. 2e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy      1 AOGV 4
        ||||
Db      13 AOGV 16

RESULT 90
US-09-864-408A-2276
;; Sequence 2276, Application US/09864408A
;; Publication No. US20040009474A1
;; GENERAL INFORMATION:
;; APPLICANT: Leach, Martin D.
;; APPLICANT: Shinkets, Richard A.
;; TITLE OF INVENTION: No. US20040009474A1 Human Polynucleotides and Polypeptides Encc
;; FILE REFERENCE: 21402-012
;; CURRENT APPLICATION NUMBER: US/09/864,408A
;; CURRENT FILING DATE: 2001-05-24
;; PRIOR APPLICATION NUMBER: 60/206,690
;; PRIOR FILING DATE: 2000-05-24
```

```
;; NUMBER OF SEQ ID NOS: 9068
;; SOFTWARE: PatSeq for Windows Version 4.0
;; SEQ ID NO 2276
;; LENGTH: 60
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-09-864-408A-2276

Query Match          100.0%; Score 19; DB 3; Length 60;
Best Local Similarity 100.0%; Pred. No. 2e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy      1 AOGV 4
        ||||
Db      20 AOGV 23

RESULT 91
US-10-424-599-198924
;; Sequence 198924, Application US/10424599
;; Publication No. US20040031072A1
;; GENERAL INFORMATION:
;; APPLICANT: La Rosa, Thomas J.
;; APPLICANT: Kovalic, David K.
;; APPLICANT: Zhou, Yihua
;; APPLICANT: Cao, Yongwei
;; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
;; FILE REFERENCE: 38-21(53223)B
;; CURRENT APPLICATION NUMBER: US/10/424,599
;; CURRENT FILING DATE: 2003-04-28
;; NUMBER OF SEQ ID NOS: 285684
;; SEQ ID NO 198924
;; LENGTH: 60
;; TYPE: PRT
;; ORGANISM: Glycine max
;; FEATURE:
;; OTHER INFORMATION: Clone ID: PAT_MRT3847_21653C.1.pep
US-10-424-599-198924

Query Match          100.0%; Score 19; DB 4; Length 60;
Best Local Similarity 100.0%; Pred. No. 2e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy      1 AOGV 4
        ||||
Db      24 AOGV 27

RESULT 92
US-10-424-599-189118
;; Sequence 189118, Application US/10424599
;; Publication No. US20040031072A1
;; GENERAL INFORMATION:
;; APPLICANT: La Rosa, Thomas J.
;; APPLICANT: Kovalic, David K.
;; APPLICANT: Zhou, Yihua
;; APPLICANT: Cao, Yongwei
;; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
;; FILE REFERENCE: 38-21(53223)B
;; CURRENT APPLICATION NUMBER: US/10/424,599
;; CURRENT FILING DATE: 2003-04-28
;; NUMBER OF SEQ ID NOS: 285684
;; SEQ ID NO 189118
;; LENGTH: 62
;; TYPE: PRT
;; ORGANISM: Glycine max
;; FEATURE:
;; NAME/KEY: unsure
;; LOCATION: (1) ..(62)
;; OTHER INFORMATION: unsure at all Xaa locations
;; FEATURE:
```

OTHER INFORMATION: Clone ID: PAT_MRT3847_141789C.1.pep
US-10-424-599-189318

Query Match 100.0%; Score 19; DB 4; Length 62;
Best Local Similarity 100.0%; Pred. No. 2.1e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
Db 39 ACGV 42

RESULT 93

US-10-424-599-189377
Sequence 189377, Application US/10424599
Publication No. US20040031072A1

GENERAL INFORMATION:

APPLICANT: La Rosa, Thomas J.

APPLICANT: Kovalic, David K.

APPLICANT: Zhou, Yihua

APPLICANT: Cao, Yongwei

TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With

TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement

FILE REFERENCE: 38-21(53223)B

CURRENT APPLICATION NUMBER: US/10/424,599

CURRENT FILING DATE: 2003-04-28

NUMBER OF SEQ ID NOS: 285684

SEQ ID NO 189377

LENGTH: 62

TYPE: PRT

ORGANISM: Glycine max

FEATURE:

OTHER INFORMATION: Clone ID: PAT_MRT3847_142023C.1.pep

US-10-424-599-189377

Query Match 100.0%; Score 19; DB 4; Length 62;
Best Local Similarity 100.0%; Pred. No. 2.1e+03;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
Db 18 ACGV 21

RESULT 94

US-10-425-114-71256

Sequence 71256, Application US/10425114

Publication No. US20040034888A1

GENERAL INFORMATION:

APPLICANT: Liu, Jingdong

APPLICANT: Zhou, Yihua

APPLICANT: Kovalic, David K.

APPLICANT: Screen, Steven E.

APPLICANT: Tabaska, Jack E.

APPLICANT: Cao, Yongwei

TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With

TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement

FILE REFERENCE: 38-21(5313)B

CURRENT APPLICATION NUMBER: US/10/425,114

CURRENT FILING DATE: 2003-04-28

NUMBER OF SEQ ID NOS: 73128

SEQ ID NO 71256

LENGTH: 62

TYPE: PRT

ORGANISM: Zea mays

FEATURE:

OTHER INFORMATION: Clone ID: LIB3067-051-Flr.pep

US-10-425-114-71256

Query Match 100.0%; Score 19; DB 4; Length 62;
Best Local Similarity 100.0%; Pred. No. 2.1e+03;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
Db 13 ACGV 16

RESULT 95

US-10-425-115-188418

Sequence 188418, Application US/10425115

Publication No. US20040214272A1

GENERAL INFORMATION:

APPLICANT: La Rosa, Thomas J.

APPLICANT: Kovalic, David K.

APPLICANT: Zhou, Yihua

APPLICANT: Cao, Yongwei

TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With

TITLE OF INVENTION: Plants

FILE REFERENCE: 38-21(53222)B

CURRENT APPLICATION NUMBER: US/10/425,115

CURRENT FILING DATE: 2003-04-28

NUMBER OF SEQ ID NOS: 369326

SEQ ID NO 188418

LENGTH: 62

TYPE: PRT

ORGANISM: Zea mays

FEATURE:

OTHER INFORMATION: Clone ID: MRT4577_103429C.1.pep

US-10-425-115-188418

Query Match 100.0%; Score 19; DB 4; Length 62;
Best Local Similarity 100.0%; Pred. No. 2.1e+03;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
Db 55 ACGV 58

RESULT 96

US-10-029-386-31780

Sequence 31780, Application US/10029386

Publication No. US20030194704A1

GENERAL INFORMATION:

APPLICANT: Penn, Sharon G.

APPLICANT: Rank, David R.

APPLICANT: Hanzel, David K.

TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR

TITLE OF INVENTION: EXPRESSION ANALYSIS TWO

FILE REFERENCE: AEOMICA-X-2

CURRENT APPLICATION NUMBER: US/10/029,386

CURRENT FILING DATE: 2001-12-20

NUMBER OF SEQ ID NOS: 34288

SOFTWARE: Annomax Sequence Listing Engine vers. 1.1

SEQ ID NO 31780

LENGTH: 63

TYPE: PRT

ORGANISM: Homo sapiens

FEATURE:

OTHER INFORMATION: MAP TO AF172277.1

OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.3

OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.1

OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1

OTHER INFORMATION: SWISSPROT HIT: Q01635, EVALUATE 1.00e-20

US-10-029-386-31780

Query Match 100.0%; Score 19; DB 4; Length 63;
Best Local Similarity 100.0%; Pred. No. 2.2e+03;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
Db 41 ACGV 44


```
RESULT 97
US-10-424-599-262885
; Sequence 262885, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 262885
; LENGTH: 63
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_79406C.1.pcp
US-10-424-599-262885

Query Match          100.0%; Score 19; DB 4; Length 63;
Best Local Similarity 100.0%; Pred. No. 2.2e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AOGV 4
      ||||
Db      34 AOGV 37

RESULT 98
US-10-424-599-270368
; Sequence 270368, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 270368
; LENGTH: 63
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_86160C.1.pcp
US-10-424-599-270368

Query Match          100.0%; Score 19; DB 4; Length 63;
Best Local Similarity 100.0%; Pred. No. 2.2e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AOGV 4
      ||||
Db      45 AOGV 48

RESULT 99
US-10-425-115-251637
; Sequence 251637, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei

; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 251637
; LENGTH: 63
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(63)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_161079C.1.pcp
US-10-425-115-251637

Query Match          100.0%; Score 19; DB 4; Length 63;
Best Local Similarity 100.0%; Pred. No. 2.2e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AOGV 4
      ||||
Db      58 AOGV 61

RESULT 100
US-10-450-763-56831
; Sequence 56831, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; CURRENT FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 56831
; LENGTH: 63
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)..(63)
; OTHER INFORMATION: Xaa = X or * as defined in Table 2
US-10-450-763-56831

Query Match          100.0%; Score 19; DB 5; Length 63;
Best Local Similarity 100.0%; Pred. No. 2.2e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AOGV 4
      ||||
Db      34 AOGV 37

RESULT 101
US-10-424-599-177860
; Sequence 177860, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
```

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; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 177860
; LENGTH: 64
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_131623C.1.pep
; US-10-424-599-177860

Query Match      100.0%; Score 19; DB 4; Length 64;
Best Local Similarity 100.0%; Pred. No. 2.2e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ACGV 4
        ||||
Db      18 ACGV 21

RESULT 102
US-10-425-115-197187
; Sequence 197187, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 197187
; LENGTH: 64
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_111417C.1.pep
; US-10-425-115-197187

Query Match      100.0%; Score 19; DB 4; Length 64;
Best Local Similarity 100.0%; Pred. No. 2.2e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ACGV 4
        ||||
Db      38 ACGV 41

RESULT 103
US-10-425-115-219280
; Sequence 219280, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 219280
; LENGTH: 64
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_150727C.1.pep
; US-10-425-115-240290
```

```

; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_131575C.1.pep
; US-10-425-115-219280

Query Match      100.0%; Score 19; DB 4; Length 64;
Best Local Similarity 100.0%; Pred. No. 2.2e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ACGV 4
        ||||
Db      25 ACGV 28

RESULT 104
US-10-437-963-106625
; Sequence 106625, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 106625
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_11051C.1.pep
; US-10-437-963-106625

Query Match      100.0%; Score 19; DB 4; Length 65;
Best Local Similarity 100.0%; Pred. No. 2.2e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ACGV 4
        ||||
Db      48 ACGV 51

RESULT 105
US-10-425-115-240290
; Sequence 240290, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 240290
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_150727C.1.pep
; US-10-425-115-240290
```

Query Match 100.0%; Score 19; DB 4; Length 65;
Best Local Similarity 100.0%; Pred. No. 2.2e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
Db 20 AOGV 23

RESULT 106
US-10-425-115-357026

; Sequence 357026, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 357026
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_88777C.1.pdp
US-10-425-115-357026

Query Match 100.0%; Score 19; DB 4; Length 65;
Best Local Similarity 100.0%; Pred. No. 2.2e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
Db 3 AOGV 6

RESULT 107

US-10-424-599-257517
; Sequence 257517, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 28584
; SEQ ID NO 257517
; LENGTH: 66
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_74561C.1.pdp
US-10-424-599-257517

Query Match 100.0%; Score 19; DB 4; Length 66;
Best Local Similarity 100.0%; Pred. No. 2.3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
Db 23 AOGV 26

RESULT 108
US-10-437-963-106620

; Sequence 106620, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 106620
; LENGTH: 67
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_11047C.1.pdp
US-10-437-963-106620

Query Match 100.0%; Score 19; DB 4; Length 67;
Best Local Similarity 100.0%; Pred. No. 2.3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
Db 25 AOGV 28

RESULT 109

US-10-437-963-158436
; Sequence 158436, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 158436
; LENGTH: 67
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_57911C.1.pdp
US-10-437-963-158436

Query Match 100.0%; Score 19; DB 4; Length 67;
Best Local Similarity 100.0%; Pred. No. 2.3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
Db 24 AOGV 27

RESULT 110

```
US-10-425-115-200989
; Sequence 200989, Application US/10425115
; Publication NO. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 200989
; LENGTH: 67
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(67)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_11488C.1.pep
US-10-425-115-200989

Query Match          100.0%; Score 19; DB 4; Length 67;
Best Local Similarity 100.0%; Pred. No. 2.3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ACGV 4
        ||||
Db       35 ACGV 38

RESULT 111
US-10-425-115-231718
; Sequence 231718, Application US/10425115
; Publication NO. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 231718
; LENGTH: 67
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_142922C.1.pep
US-10-425-115-231718

Query Match          100.0%; Score 19; DB 4; Length 67;
Best Local Similarity 100.0%; Pred. No. 2.3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ACGV 4
        ||||
Db       13 ACGV 16

RESULT 112
US-11-097-143-39966
; Sequence 39966, Application US/11097143
; Publication NO. US20050208558A1
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
```

```
; APPLICANT: et al.
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
; TITLE OF INVENTION: DROSOPHILA GENES.
; FILE REFERENCE: CL000728
; CURRENT APPLICATION NUMBER: US/11/097,143
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: 60/157,932
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/160,191
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: 60/161,932
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,931
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 39966
; LENGTH: 67
; TYPE: PRT
; ORGANISM: DROSOPHILA
US-11-097-143-39966

Query Match          100.0%; Score 19; DB 6; Length 67;
Best Local Similarity 100.0%; Pred. No. 2.3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ACGV 4
        ||||
Db       9 ACGV 12

RESULT 113
US-10-425-115-354448
; Sequence 354448, Application US/10425115
; Publication NO. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 354448
; LENGTH: 68
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(68)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_86428C.1.pep
US-10-425-115-354448

Query Match          100.0%; Score 19; DB 4; Length 68;
Best Local Similarity 100.0%; Pred. No. 2.3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ACGV 4
        ||||
```

Db 39 AOV 42

RESULT 114

US-09-782-142-1
; Sequence 1, Application US/09782142
; Patent No. US20020001827A1

GENERAL INFORMATION:

APPLICANT: Bandman, Olga
Hawkins, Phillip R.
Murty, Lynn E.
Goli, Surya K.TITLE OF INVENTION: NOVEL HUMAN CYTOKINES
NUMBER OF SEQUENCES: 7

CORRESPONDENCE ADDRESS:

ADDRESS: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA

COUNTRY: USA

ZIP: 94304

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FASESEQ for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/782,142

FILING DATE: 12-Feb-2001

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/792,013

FILING DATE: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: Billings, Lucy J.

REGISTRATION NUMBER: 36,749

REFERENCE/DOCKET NUMBER: PF-0205 US

TELECOMMUNICATION INFORMATION:

TELEPHONE: 415-855-0555

TELEFAX: 415-845-4166

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 69 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

IMMEDIATE SOURCE:

LIBRARY: SINTST01

CLONE: 1431384

SEQUENCE DESCRIPTION: SEQ ID NO: 1:

US-09-782-142-1

Query Match 100.0%; Score 19; DB 3; Length 69;

Best Local Similarity 100.0%; Pred. No. 2.4e+03;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOV 4

Db 5 AOV 8

RESULT 115

US-10-300-257-1

; Sequence 1, Application US/10300257

; Publication No. US20030096371A1

GENERAL INFORMATION:

APPLICANT: Bandman, Olga
Hawkins, Phillip R.
Murty, Lynn E.
Goli, Surya K.

TITLE OF INVENTION: HUMAN CYTOKINES

NUMBER OF SEQUENCES: 7

CORRESPONDENCE ADDRESS:

ADDRESS:

ADDRESS:

ADDRESS: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA

COUNTRY: USA

ZIP: 94304

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FASESEQ for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/300,257

FILING DATE: 19-No. US20030096371A1-2002

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: <Unknown>

FILING DATE: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: Billings, Lucy J.

REGISTRATION NUMBER: 36,749

REFERENCE/DOCKET NUMBER: PF-0205 US

TELECOMMUNICATION INFORMATION:

TELEPHONE: 415-855-0555

TELEFAX: 415-845-4166

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 69 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

IMMEDIATE SOURCE:

LIBRARY: SINTST01

CLONE: 1431384

SEQUENCE DESCRIPTION: SEQ ID NO: 1:

US-10-300-257-1

Query Match 100.0%; Score 19; DB 4; Length 69;

Best Local Similarity 100.0%; Pred. No. 2.4e+03;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOV 4

Db 5 AOV 8

RESULT 116

US-10-424-599-255403

; Sequence 255403, Application US/10424599

; Publication No. US20040031072A1

GENERAL INFORMATION:

APPLICANT: La Rosa Thomas J

APPLICANT: Kovalic David K

APPLICANT: Zhou Yihua

APPLICANT: Cao Yongwei

TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With

FILE REFERENCE: 38-21(53223)B

CURRENT APPLICATION NUMBER: US/10/424,599

CURRENT FILING DATE: 2003-04-28

NUMBER OF SEQ ID NOS: 285684

SEQ ID NO 255403

LENGTH: 69

TYPE: PRT

ORGANISM: Glycine max

FEATURE:

OTHER INFORMATION: Clone ID: PAT_MRT3847_72650C.1.pep

US-10-424-599-255403

Query Match 100.0%; Score 19; DB 4; Length 69;

Best Local Similarity 100.0%; Pred. No. 2.4e+03;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ACGV 4
|||
Db 21 ACGV 24

RESULT 117
US-10-437-963-191908
; Sequence 191908, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 191908
; LENGTH: 69
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(69)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_88183C.1.pep
US-10-437-963-191908

Query Match 100.0%; Score 19; DB 4; Length 69;
Best Local Similarity 100.0%; Pred. No. 2.4e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ACGV 4
|||
Db 23 ACGV 26

RESULT 118
US-10-767-701-34429
; Sequence 34429, Application US/10767701
; Publication No. US20040172684A1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53535)B
; CURRENT APPLICATION NUMBER: US/10/767,701
; CURRENT FILING DATE: 2004-01-23
; NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 34429
; LENGTH: 69
; TYPE: PRT
; ORGANISM: Sorghum bicolor
; FEATURE:
; OTHER INFORMATION: Clone ID: SORBI-28MAY03-C48184_1.pep
US-10-767-701-34429

Query Match 100.0%; Score 19; DB 4; Length 69;
Best Local Similarity 100.0%; Pred. No. 2.4e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 59 ACGV 62

RESULT 119
US-10-425-115-324687
; Sequence 324687, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 324687
; LENGTH: 69
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_59186C.1.pep
US-10-425-115-324687

Query Match 100.0%; Score 19; DB 4; Length 69;
Best Local Similarity 100.0%; Pred. No. 2.4e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ACGV 4
|||
Db 29 ACGV 32

RESULT 120
US-10-424-599-242839
; Sequence 242839, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 242839
; LENGTH: 70
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_61312C.1.pep
US-10-424-599-242839

Query Match 100.0%; Score 19; DB 4; Length 70;
Best Local Similarity 100.0%; Pred. No. 2.4e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ACGV 4
|||
Db 10 ACGV 13

RESULT 121
US-10-437-963-134195
; Sequence 134195, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.

APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yinhua
APPLICANT: Cao, Yongwei
APPLICANT: Wu, Wei
APPLICANT: Boukharov, Andrey A.
APPLICANT: Barbazuk, Brad
APPLICANT: Li, Ping
TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 38-21(53221)B
CURRENT FILING DATE: 2003-05-14
NUMBER OF SEQ ID NOS: 204966
SEQ ID NO 134195
LENGTH: 70
TYPE: PRT
ORGANISM: Oryza sativa
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT4530_35993C.1.pep
US-10-437-963-134195

Query Match 100.0%; Score 19; DB 4; Length 70;
Best Local Similarity 100.0%; Pred. No. 2.4e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
DB 11 ACGV 14

RESULT 122
US-10-425-115-321591
Sequence 321591, Application US/10425115
Publication No. US20040214272A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yinhua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 38-21(53222)B
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 321591
LENGTH: 70
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
OTHER INFORMATION: Clone ID: MRT4577_56356C.1.pep
US-10-425-115-321591

Query Match 100.0%; Score 19; DB 4; Length 70;
Best Local Similarity 100.0%; Pred. No. 2.4e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
DB 8 ACGV 11

RESULT 123
US-10-926-683-1548
Sequence 1548, Application US/10926683
Publication No. US20050106595A1
GENERAL INFORMATION:
APPLICANT: Dumas Mline Edwards, J.B.
APPLICANT: Duclert A.
APPLICANT: Giordano, J.Y.
TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
FILE REFERENCE: GENSET.025CPI
CURRENT APPLICATION NUMBER: US/10/926,683

CURRENT FILING DATE: 2004-08-25
PRIOR APPLICATION NUMBER: US/09/471,276
PRIOR FILING DATE: 1999-12-21
PRIOR APPLICATION NUMBER: 09/057,719
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 09/069,047
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: PCT/IB99/00712
PRIOR FILING DATE: 1999-04-09
NUMBER OF SEQ ID NOS: 1622
SOFTWARE: Patent.pm
SEQ ID NO 1548
LENGTH: 71
TYPE: PRT
ORGANISM: Homo sapiens
US-10-926-683-1548

Query Match 100.0%; Score 19; DB 5; Length 71;
Best Local Similarity 100.0%; Pred. No. 2.4e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
DB 59 ACGV 62

RESULT 124
US-10-131-406-6
Sequence 6, Application US/10131406
Publication No. US20030013104A1
GENERAL INFORMATION:
APPLICANT: LEVY, STUART B.
TITLE OF INVENTION: MULTIPLE ANTIBIOTIC RESISTANCE OPERON
ASSAYS
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSEE: WOLF, GREENFIELD & SACKS, P.C.
STREET: 600 ATLANTIC AVENUE
CITY: BOSTON
STATE: MA
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/131,406
FILING DATE: 22-Apr-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/225,480
FILING DATE: <Unknown>
APPLICATION NUMBER: US 07/938,085
FILING DATE: 28-AUG-1992
ATTORNEY/AGENT INFORMATION:
NAME: GATES, EDWARD R.
REGISTRATION NUMBER: 31,616
REFERENCE/DOCKET NUMBER: T0359/7003
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-720-3500
TELEFAX: 617-720-2441
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 72 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 6:
US-10-131-406-6

Query Match 100.0%; Score 19; DB 4; Length 72;

Best Local Similarity 100.0%; Pred. No. 2.5e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
Db 17 ACGV 20

RESULT 125

US-10-424-599-182197
; Sequence 182197, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 182197
; LENGTH: 72
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_135537C.1.pep
US-10-424-599-182197

Query Match 100.0%; Score 19; DB 4; Length 72;
Best Local Similarity 100.0%; Pred. No. 2.5e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
Db 1 ACGV 4

RESULT 126

US-10-424-599-234373
; Sequence 234373, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 234373
; LENGTH: 72
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_53670C.1.pep
US-10-424-599-234373

Query Match 100.0%; Score 19; DB 4; Length 72;
Best Local Similarity 100.0%; Pred. No. 2.5e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
Db 52 ACGV 55

RESULT 127

US-10-425-115-202113
; Sequence 202113, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 202113
; LENGTH: 72
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_115914C.1.pep
US-10-425-115-202113

Query Match 100.0%; Score 19; DB 4; Length 72;
Best Local Similarity 100.0%; Pred. No. 2.5e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
Db 8 ACGV 11

RESULT 128

US-10-425-115-348682
; Sequence 348682, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 348682
; LENGTH: 72
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_81163C.1.pep
US-10-425-115-348682

Query Match 100.0%; Score 19; DB 4; Length 72;
Best Local Similarity 100.0%; Pred. No. 2.5e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
Db 40 ACGV 43

RESULT 129

US-10-989-992-6
; Sequence 6, Application US/1098992
; Publication No. US20050136460A1
; GENERAL INFORMATION:
; APPLICANT: LEVY, STUART B.
; TITLE OF INVENTION: MULTIPLE ANTIBIOTIC RESISTANCE OPERON
; ASSAYS
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:

ADDRESS: WOLF, GREENFIELD & SACKS, P.C.
STREET: 600 ATLANTIC AVENUE
CITY: BOSTON
STATE: MA
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/989,992
FILING DATE: 15-Nov-2004
CLASSIFICATION: <unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/10/131,406
FILING DATE: 22-Apr-2002
APPLICATION NUMBER: US/08/225,480
FILING DATE: <unknown>
APPLICATION NUMBER: US 07/938,085
FILING DATE: 28-AUG-1992
ATTORNEY/AGENT INFORMATION:
NAME: GATES, EDWARD R.
REGISTRATION NUMBER: 31,616
REFERENCE/DOCKET NUMBER: T0359/7003
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-720-3500
TELEFAX: 617-720-2441
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 72 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 6:
US-10-989-992-6

Query Match 100.0%; Score 19; DB 5; Length 72;
Best Local Similarity 100.0%; Pred. No. 2.5e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AOGV 4
Db 17 AOGV 20

RESULT 130
US-09-864-408A-2882
Sequence 2882, Application US/09864408A
Publication No. US20040009474A1
GENERAL INFORMATION:
APPLICANT: Shinkets, Richard A.
TITLE OF INVENTION: No. US20040009474A1 Human Polynucleotides and Polypeptides Encc
FILE REFERENCE: 21402-012
CURRENT APPLICATION NUMBER: US/09/864,408A
CURRENT FILING DATE: 2001-05-24
PRIOR APPLICATION NUMBER: 60/206,690
PRIOR FILING DATE: 2000-05-24
NUMBER OF SEQ ID NOS: 9068
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2882
LENGTH: 74
TYPE: PRT
ORGANISM: Homo sapiens
US-09-864-408A-2882

Query Match 100.0%; Score 19; DB 3; Length 74;
Best Local Similarity 100.0%; Pred. No. 2.5e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AOGV 4
Db 1 AOGV 4

Db 48 AOGV 51

RESULT 131
US-10-424-599-178691
Sequence 178691, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La Rosa Thomas J
APPLICANT: Kovalic David K
APPLICANT: Zhou Yihua
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
FILE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53223)B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 178691
LENGTH: 74
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT3847_132375C.1.pep
US-10-424-599-178691

Query Match 100.0%; Score 19; DB 4; Length 74;
Best Local Similarity 100.0%; Pred. No. 2.5e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AOGV 4
Db 61 AOGV 64

RESULT 132
US-09-867-550-1124
Sequence 1124, Application US/09867550
Patent No. US20020082206A1
GENERAL INFORMATION:
APPLICANT: Leach, Martin D.
APPLICANT: Mehraban, Foad,
APPLICANT: Conley, Pamela
APPLICANT: Law, Debbie
APPLICANT: Topper, James
TITLE OF INVENTION: No. US20020082206A1 Polynucleotides from Atherogenic Cells and
TITLE OF INVENTION: Thereby
FILE REFERENCE: 21402-013 (Cura-313)
CURRENT APPLICATION NUMBER: US/09/867,550
CURRENT FILING DATE: 2001-09-20
PRIOR APPLICATION NUMBER: US9N 60/208,427
PRIOR FILING DATE: 2000-05-30
NUMBER OF SEQ ID NOS: 2125
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 1124
LENGTH: 75
TYPE: PRT
ORGANISM: Homo sapiens
US-09-867-550-1124

Query Match 100.0%; Score 19; DB 3; Length 75;
Best Local Similarity 100.0%; Pred. No. 2.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AOGV 4
Db 4 AOGV 7

RESULT 133
US-10-424-599-154365
Sequence 154365, Application US/10424599

```
/ Publication No. US20040031072A1
/ GENERAL INFORMATION:
/ APPLICANT: La Rosa, Thomas J
/ APPLICANT: Kovacic, David K
/ APPLICANT: Zhou, Yihua
/ APPLICANT: Cao, Yongwei
/ TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
/ TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
/ FILE REFERENCE: 38-21(53223)B
/ CURRENT APPLICATION NUMBER: US/10/424,599
/ CURRENT FILING DATE: 2003-04-28
/ NUMBER OF SEQ ID NOS: 285684
/ SEQ ID NO 154365
/ LENGTH: 75
/ TYPE: PRT
/ ORGANISM: Glycine max
/ FEATURE:
/ NAME/KEY: unsure
/ LOCATION: (1)..(75)
/ OTHER INFORMATION: unsure at all Xaa locations
/ OTHER INFORMATION: Cloned ID: PAT_MRT3847_110412C.1.pcp
US-10-424-599-154365
```

```
Query Match          100.0%; Score 19; DB 4; Length 75;
Best Local Similarity 100.0%; Pred. No. 2.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 ACGV 4
Db 7 ACGV 10
```

```
RESULT 134
US-10-437-963-147518
/ Sequence 147518, Application US/10437963
/ Publication No. US20040123343A1
/ GENERAL INFORMATION:
/ APPLICANT: La Rosa, Thomas J.
/ APPLICANT: Kovacic, David K.
/ APPLICANT: Zhou, Yihua
/ APPLICANT: Cao, Yongwei
/ APPLICANT: Wu, Wei
/ APPLICANT: Boukharov, Andrey A.
/ APPLICANT: Barabazuk, Brad
/ APPLICANT: Li, Ping
/ TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
/ TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
/ FILE REFERENCE: 38-21(53221)B
/ CURRENT APPLICATION NUMBER: US/10/437,963
/ CURRENT FILING DATE: 2003-05-14
/ NUMBER OF SEQ ID NOS: 204966
/ SEQ ID NO 147518
/ LENGTH: 75
/ TYPE: PRT
/ ORGANISM: Oryza sativa
/ FEATURE:
/ NAME/KEY: unsure
/ LOCATION: (1)..(75)
/ OTHER INFORMATION: unsure at all Xaa locations
/ OTHER INFORMATION: Cloned ID: PAT_MRT4530_48038C.1.pcp
US-10-437-963-147518
```

```
Query Match          100.0%; Score 19; DB 4; Length 75;
Best Local Similarity 100.0%; Pred. No. 2.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 ACGV 4
Db 64 ACGV 67
```

```
RESULT 135
US-10-425-115-222854
/ Sequence 222854, Application US/10425115
/ Publication No. US20040214272A1
```

```
/ GENERAL INFORMATION:
/ APPLICANT: La Rosa, Thomas J.
/ APPLICANT: Kovacic, David K.
/ APPLICANT: Zhou, Yihua
/ APPLICANT: Cao, Yongwei
/ TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
/ TITLE OF INVENTION: Plants
/ FILE REFERENCE: 38-21(53222)B
/ CURRENT APPLICATION NUMBER: US/10/425,115
/ CURRENT FILING DATE: 2003-04-28
/ NUMBER OF SEQ ID NOS: 369326
/ SEQ ID NO 222854
/ LENGTH: 75
/ TYPE: PRT
/ ORGANISM: Zea mays
/ FEATURE:
/ NAME/KEY: unsure
/ LOCATION: (1)..(75)
/ OTHER INFORMATION: unsure at all Xaa locations
/ OTHER INFORMATION: Cloned ID: MRT4577_134833C.1.pcp
US-10-425-115-222854
```

```
Query Match          100.0%; Score 19; DB 4; Length 75;
Best Local Similarity 100.0%; Pred. No. 2.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 ACGV 4
Db 24 ACGV 27
```

```
RESULT 136
US-10-029-386-30198
/ Sequence 30198, Application US/10029386
/ Publication No. US20030194704A1
/ GENERAL INFORMATION:
/ APPLICANT: Penn, Sharon G.
/ APPLICANT: Rank, David R.
/ APPLICANT: Hanzel, David K.
/ TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR GI
/ TITLE OF INVENTION: EXPRESSION ANALYSIS TWO
/ FILE REFERENCE: A60MICA-X-2
/ CURRENT APPLICATION NUMBER: US/10/029,386
/ CURRENT FILING DATE: 2001-12-20
/ NUMBER OF SEQ ID NOS: 34288
/ SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
/ SEQ ID NO 30198
/ LENGTH: 76
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: MAP TO CHR13.1
/ OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 0.9
/ OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.1
/ OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1
/ OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 0.94
/ OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 0.85
/ OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 0.75
/ OTHER INFORMATION: SWISSPROT HIT: P40182, EVALUATE 2.50e+00
US-10-029-386-30198
```

```
Query Match          100.0%; Score 19; DB 4; Length 76;
Best Local Similarity 100.0%; Pred. No. 2.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 ACGV 4
Db 59 ACGV 62
```

```
RESULT 137
US-10-425-115-221278
```

```
; Sequence 221278, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 221278
; LENGTH: 76
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(76)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_133398C.1.pep
US-10-425-115-221278
```

```
Query Match          100.0%; Score 19; DB 4; Length 76;
Best Local Similarity 100.0%; Pred. No. 2.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 AOGV 4
        ||||
Db       38 AOGV 41
```

```
RESULT 139
US-10-425-115-292142
; Sequence 292142, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 292142
; LENGTH: 76
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(76)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_2951C.1.pep
US-10-425-115-292142
```

```
Query Match          100.0%; Score 19; DB 4; Length 76;
Best Local Similarity 100.0%; Pred. No. 2.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 AOGV 4
        ||||
Db       16 AOGV 19
```

```
RESULT 139
US-10-425-115-355384
; Sequence 355384, Application US/10425115
```

```
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 355384
; LENGTH: 76
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(76)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_87277C.1.pep
US-10-425-115-355384
```

```
Query Match          100.0%; Score 19; DB 4; Length 76;
Best Local Similarity 100.0%; Pred. No. 2.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 AOGV 4
        ||||
Db       68 AOGV 71
```

```
RESULT 140
US-10-425-115-271573
; Sequence 271573, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 271573
; LENGTH: 77
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_179269C.1.pep
US-10-425-115-271573
```

```
Query Match          100.0%; Score 19; DB 4; Length 77;
Best Local Similarity 100.0%; Pred. No. 2.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 AOGV 4
        ||||
Db       32 AOGV 35
```

```
RESULT 141
US-10-425-115-289812
; Sequence 289812, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
```

```

; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(5322)B
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 289812
; LENGTH: 77
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(77)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_27398C.1.pep
; US-10-425-115-289812

Query Match          100.0%; Score 19; DB 4; Length 77;
Best Local Similarity 100.0%; Pred. No. 2.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AOCV 4
        ||||
Db      61 AOCV 64

RESULT 142
US-10-425-115-319654
; Sequence 319654, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(5322)B
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 319654
; LENGTH: 77
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_54595C.1.pep
; US-10-425-115-319654

Query Match          100.0%; Score 19; DB 4; Length 77;
Best Local Similarity 100.0%; Pred. No. 2.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AOCV 4
        ||||
Db      6 AOCV 9

RESULT 143
US-10-425-115-330336
; Sequence 330336, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(5322)B
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 319654
; LENGTH: 77
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_54595C.1.pep
; US-10-425-115-319654
```

```

; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 330336
; LENGTH: 77
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_64366C.1.pep
; US-10-425-115-330336

Query Match          100.0%; Score 19; DB 4; Length 77;
Best Local Similarity 100.0%; Pred. No. 2.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AOCV 4
        ||||
Db      32 AOCV 35

RESULT 144
US-10-425-115-243630
; Sequence 243630, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(5322)B
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 243630
; LENGTH: 78
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_153773C.1.pep
; US-10-425-115-243630

Query Match          100.0%; Score 19; DB 4; Length 78;
Best Local Similarity 100.0%; Pred. No. 2.7e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AOCV 4
        ||||
Db      66 AOCV 69

RESULT 145
US-10-450-763-56828
; Sequence 56828, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: US/10/450,763
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 56828
; LENGTH: 78
; TYPE: PRT
; ORGANISM: Homo sapiens
```

```
FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(78)
; OTHER INFORMATION: Xaa = X or * as defined in Table 2
US-10-450-763-56828
```

```
Query Match          100.0%; Score 19; DB 5; Length 78;
Best Local Similarity 100.0%; Pred. No. 2.7e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 AOGV 4
        ||||
Db       55 AOGV 58
```

```
RESULT 146
US-10-437-963-195350
; Sequence 195350, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 195350
; LENGTH: 79
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_91307C.1.pep
US-10-437-963-195350
```

```
Query Match          100.0%; Score 19; DB 4; Length 79;
Best Local Similarity 100.0%; Pred. No. 2.7e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 AOGV 4
        ||||
Db       50 AOGV 53
```

```
RESULT 147
US-10-425-115-264068
; Sequence 264068, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 264068
; LENGTH: 79
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_172445C.1.pep
US-10-425-115-264068
```

```
Query Match          100.0%; Score 19; DB 4; Length 79;
Best Local Similarity 100.0%; Pred. No. 2.7e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 AOGV 4
        ||||
Db       22 AOGV 25
```

```
RESULT 148
US-10-424-599-277301
; Sequence 277301, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 277301
; LENGTH: 81
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_92426C.1.pep
US-10-424-599-277301
```

```
Query Match          100.0%; Score 19; DB 4; Length 81;
Best Local Similarity 100.0%; Pred. No. 2.8e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 AOGV 4
        ||||
Db       56 AOGV 59
```

```
RESULT 149
US-10-437-963-137515
; Sequence 137515, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 137515
; LENGTH: 81
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_38992C.1.pep
US-10-437-963-137515
```

```
Query Match          100.0%; Score 19; DB 4; Length 81;
Best Local Similarity 100.0%; Pred. No. 2.8e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

QY 1 ACGV 4
|||
Db 18 ACGV 21

RESULT 150
US-10-425-115-263146
; Sequence 263146, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 263146
; LENGTH: 81
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_171600C.1.pep
US-10-425-115-263146

Query Match 100.0%; Score 19; DB 4; Length 81;
Best Local Similarity 100.0%; Pred. No. 2.8e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
|||
Db 53 ACGV 56

RESULT 151
US-10-425-115-306230
; Sequence 306230, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 306230
; LENGTH: 81
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_42347C.1.pep
US-10-425-115-306230

Query Match 100.0%; Score 19; DB 4; Length 81;
Best Local Similarity 100.0%; Pred. No. 2.8e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
|||
Db 4 ACGV 7

RESULT 152
US-10-424-599-163460
; Sequence 163460, Application US/10424599
; Publication No. US20040031072A1

; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 163460
; LENGTH: 82
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_118623C.1.pep
US-10-424-599-163460

Query Match 100.0%; Score 19; DB 4; Length 82;
Best Local Similarity 100.0%; Pred. No. 2.8e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
|||
Db 22 ACGV 25

RESULT 153
US-10-424-599-227097
; Sequence 227097, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 227097
; LENGTH: 82
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_47099C.1.pep
US-10-424-599-227097

Query Match 100.0%; Score 19; DB 4; Length 82;
Best Local Similarity 100.0%; Pred. No. 2.8e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
|||
Db 70 ACGV 73

RESULT 154
US-10-425-115-236419
; Sequence 236419, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115

```
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 236419
; LENGTH: 82
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_147196C.1.pep
US-10-425-115-236419

Query Match
Best Local Similarity 100.0%; Score 19; DB 4; Length 82;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
Db 30 AOGV 33

RESULT 155
US-10-424-599-270384
; Sequence 270384, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J
; APPLICANT: Kovalic, David K
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT FILING DATE: 2003-04-28
; CURRENT APPLICATION NUMBER: US/10/424,599
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 270384
; LENGTH: 83
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_86175C.1.pep
US-10-424-599-270384

Query Match
Best Local Similarity 100.0%; Score 19; DB 4; Length 83;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
Db 9 AOGV 12

RESULT 156
US-10-437-963-180416
; Sequence 180416, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT FILING DATE: 2003-05-14
; CURRENT APPLICATION NUMBER: US/10/437,963
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 180416
; LENGTH: 83
; TYPE: PRT
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```
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_77786C.1.pep
US-10-437-963-180416

Query Match
Best Local Similarity 100.0%; Score 19; DB 4; Length 83;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
Db 4 AOGV 7

RESULT 157
US-10-425-115-205887
; Sequence 205887, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT FILING DATE: 2003-04-28
; CURRENT APPLICATION NUMBER: US/10/425,115
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 205887
; LENGTH: 83
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_119352C.1.pep
US-10-425-115-205887

Query Match
Best Local Similarity 100.0%; Score 19; DB 4; Length 83;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
Db 60 AOGV 63

RESULT 158
US-10-425-115-241912
; Sequence 241912, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT FILING DATE: 2003-04-28
; CURRENT APPLICATION NUMBER: US/10/425,115
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 241912
; LENGTH: 83
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(83)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_152202C.1.pep
US-10-425-115-241912
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Query Match 100.0%; Score 19; DB 4; Length 83;
Best Local Similarity 100.0%; Pred. No. 2.8e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOCV 4
|||
DB 20 AOCV 23

RESULT 159
US-10-425-115-289244
; Sequence 289244, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; PRIOR FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 289244
; LENGTH: 83
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: -20...-1
US-10-425-115-289244
; OTHER INFORMATION: Clone ID: MRT4577_26880C.1.pep

Query Match 100.0%; Score 19; DB 4; Length 83;
Best Local Similarity 100.0%; Pred. No. 2.8e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOCV 4
|||
DB 50 AOCV 53

RESULT 160
US-09-731-872-330
; Sequence 330, Application US/09731872
; Patent No. US20020102604A1
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, Jean Baptiste
; APPLICANT: Bougueleret, Lydie
; APPLICANT: Jobert, Severin
; TITLE OF INVENTION: FULL-LENGTH HUMAN CDNAS ENCODING POTENTIALLY SECRETED PROTEINS
; FILE REFERENCE: 78.US.18G
; CURRENT APPLICATION NUMBER: US/09/731,872
; CURRENT FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 60/169,629
; PRIOR FILING DATE: 1999-12-08
; PRIOR APPLICATION NUMBER: US 60/187,470
; PRIOR FILING DATE: 2000-03-06
; NUMBER OF SEQ ID NOS: 482
; SOFTWARE: Patent.pm
; SEQ ID NO 330
; LENGTH: 84
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: -20...-1
US-09-731-872-330

Query Match 100.0%; Score 19; DB 3; Length 84;
Best Local Similarity 100.0%; Pred. No. 2.9e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOCV 4

DB 30 AOCV 33
|||

RESULT 161
US-09-876-997-330
; Sequence 330, Application US/09876997
; Publication No. US20030152921A1
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, Jean Baptiste
; APPLICANT: Bougueleret, Lydie
; APPLICANT: Jobert, Severin
; TITLE OF INVENTION: FULL-LENGTH HUMAN CDNAS ENCODING POTENTIALLY SECRETED PROTEINS
; FILE REFERENCE: 78.US4.CIP
; CURRENT APPLICATION NUMBER: US/09/876,997
; CURRENT FILING DATE: 2001-06-08
; PRIOR APPLICATION NUMBER: US 09/731,872
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 60/187,470
; PRIOR FILING DATE: 2000-03-06
; PRIOR APPLICATION NUMBER: US 60/169,629
; PRIOR FILING DATE: 1999-12-08
; NUMBER OF SEQ ID NOS: 482
; SOFTWARE: Patent.pm
; SEQ ID NO 330
; LENGTH: 84
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: -20...-1
US-09-876-997-330

Query Match 100.0%; Score 19; DB 3; Length 84;
Best Local Similarity 100.0%; Pred. No. 2.9e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOCV 4
|||
DB 30 AOCV 33

RESULT 162
US-10-425-115-364443
; Sequence 364443, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 364443
; LENGTH: 84
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: -20...-1
US-10-425-115-364443
; OTHER INFORMATION: Clone ID: MRT4577_95540C.1.pep

Query Match 100.0%; Score 19; DB 4; Length 84;
Best Local Similarity 100.0%; Pred. No. 2.9e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOCV 4
|||
DB 73 AOCV 76

RESULT 163
US-10-643-836-330
; Sequence 330, Application US/10643836
; Publication No. US2005096458A1
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, Jean Baptiste
; APPLICANT: Bouguetere, Lydie
; APPLICANT: Jobert, Severin
; TITLE OF INVENTION: FULL-LENGTH HUMAN CDNA5 ENCODING POTENTIALLY SECRETED PROTEINS
; FILE REFERENCE: 78 US3, REG
; CURRENT APPLICATION NUMBER: US/10/643,836
; CURRENT FILING DATE: 2003-08-19
; PRIOR APPLICATION NUMBER: US/09/731,872
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 60/169,629
; PRIOR FILING DATE: 1999-12-08
; PRIOR APPLICATION NUMBER: US 60/187,470
; PRIOR FILING DATE: 2000-03-06
; NUMBER OF SEQ ID NOS: 482
; SOFTWARE: Patent.pm
; SEQ ID NO 330
; LENGTH: 84
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: -20...-1
US-10-643-836-330

Query Match 100.0%; Score 19; DB 5; Length 84;
Best Local Similarity 100.0%; Pred. No. 2.9e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
Db 30 AOGV 33

RESULT 164
US-10-450-763-35681
; Sequence 35681, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; CURRENT FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 35681
; LENGTH: 84
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(84)
; OTHER INFORMATION: Xaa = X or * as defined in Table 2
US-10-450-763-35681

Query Match 100.0%; Score 19; DB 5; Length 84;
Best Local Similarity 100.0%; Pred. No. 2.9e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||

Db 39 AOGV 42

RESULT 165
US-11-097-143-21975
; Sequence 21975, Application US/11097143
; Publication No. US20050208558A1
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
; APPLICANT: et al.
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
; FILE REFERENCE: CLO00728
; CURRENT APPLICATION NUMBER: US/11/097,143
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: 60/157,832
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/160,191
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: 60/161,932
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 21975
; LENGTH: 84
; TYPE: PRT
; ORGANISM: DROSOPHILA
US-11-097-143-21975

Query Match 100.0%; Score 19; DB 6; Length 84;
Best Local Similarity 100.0%; Pred. No. 2.9e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
Db 50 AOGV 53

RESULT 166
US-10-425-114-68442
; Sequence 68442, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jindong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 68442
; LENGTH: 85
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3136-058-H12_F11.pep
US-10-425-114-68442

Query Match 100.0%; Score 19; DB 6; Length 84;
Best Local Similarity 100.0%; Pred. No. 2.9e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query Match 100.0%; Score 19; DB 4; Length 85;
Best Local Similarity 100.0%; Pred. No. 2.9e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
|||
DB 8 ACGV 11

RESULT 167

US-10-363-616-365
; Sequence 365, Application US/10363616
; Publication No. US20040044181A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 21272-113 (793)
; CURRENT APPLICATION NUMBER: US/10/363,616
; CURRENT FILING DATE: 2003-03-03
; PRIOR APPLICATION NUMBER: 09/654,935
; PRIOR FILING DATE: 2000-09-01
; NUMBER OF SEQ ID NOS: 490
; SEQ ID NO 365
; LENGTH: 85
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-363-616-365

Query Match 100.0%; Score 19; DB 4; Length 85;
Best Local Similarity 100.0%; Pred. No. 2.9e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
|||
DB 44 ACGV 47

RESULT 168

US-10-335-977-8250
; Sequence 8250, Application US/10335977
; Publication No. US20040052799A1
; GENERAL INFORMATION:
; APPLICANT: DOUGLAS SMITH et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES
; RELATING TO HELICOBACTER PYLORI FOR
; DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 10031
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 26 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD-ROM ISO9660
; OPERATING SYSTEM: Windows NT 4.0
; SOFTWARE: UNIX
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/335,977
; FILING DATE: 30-Dec-2002
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/993,002
; FILING DATE: 17-DEC-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Mandragouras, Amy E.
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: GTN-018
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)742-4214

; INFORMATION FOR SEQ ID NO: 8250:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 85 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULAR TYPE: protein
; HYPOTHETICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Helicobacter pylori
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (B) LOCATION 1...85
; SEQUENCE DESCRIPTION: SEQ ID NO: 8250:
US-10-335-977-8250

Query Match 100.0%; Score 19; DB 4; Length 85;
Best Local Similarity 100.0%; Pred. No. 2.9e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
|||
DB 23 ACGV 26

RESULT 169

US-10-425-115-368000
; Sequence 368000, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovacic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 368000
; LENGTH: 85
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_98789C.1.pep
US-10-425-115-368000

Query Match 100.0%; Score 19; DB 4; Length 85;
Best Local Similarity 100.0%; Pred. No. 2.9e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
|||
DB 18 ACGV 21

RESULT 170

US-09-955-502-4
; Sequence 4, Application US/09955502
; Patent No. US20020072118A1
; GENERAL INFORMATION:
; APPLICANT: Downs, Diana M.
; APPLICANT: Gralnick, Jeff A.
; TITLE OF INVENTION: Method for Preventing Superoxide Damage to Cells and
; FILE REFERENCE: 960296.97559
; CURRENT APPLICATION NUMBER: US/09/955,502
; CURRENT FILING DATE: 2001-09-18
; PRIOR APPLICATION NUMBER: 60/234,588
; PRIOR FILING DATE: 2000-09-22
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4

LENGTH: 86
TYPE: PRT
ORGANISM: Bordetella bronchiseptica
US-09-955-502-4

Query Match
Best Local Similarity 100.0%; Score 19; DB 3; Length 86;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
DB 82 AOGV 85

RESULT 171
US-09-864-408A-2696
Sequence 2696, Application US/09864408A
Publication No. US20040009474A1
GENERAL INFORMATION:

APPLICANT: Leach, Martin D.
APPLICANT: Shinkets, Richard A.
TITLE OF INVENTION: NO. US20040009474A1 Human Polynucleotides and Polypeptides Encc
FILE REFERENCE: 21402-012
CURRENT APPLICATION NUMBER: US/09/864,408A
PRIOR FILING DATE: 2001-05-24
PRIOR APPLICATION NUMBER: 60/206,690
NUMBER OF SEQ ID NOS: 9068
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2696
LENGTH: 86
TYPE: PRT
ORGANISM: Homo sapiens
US-09-864-408A-2696

Query Match
Best Local Similarity 100.0%; Score 19; DB 3; Length 86;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
DB 75 AOGV 78

RESULT 172
US-10-335-977-8249
Sequence 8249, Application US/10335977
Publication No. US20040052799A1
GENERAL INFORMATION:

APPLICANT: DOUGLAS SMITH et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES
RELATING TO HELICOBACTER PYLORI FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 10031
CORRESPONDENCE ADDRESSES:

ADDRESSEE: LAHIVE & COCKFIELD
STREET: 28 State Street
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109-1875

COMPUTER READABLE FORM:
MEDIUM TYPE: CD-ROM ISO9660
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: Windows NT 4.0
SOFTWARE: UNIX

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/335,977
FILING DATE: 30-Dec-2002
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/993,002
FILING DATE: 17-DEC-1997
ATTORNEY/AGENT INFORMATION:

NAME: Mandragourae, Amy R.
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: GTN-018
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)742-4214
INFORMATION FOR SEQ ID NO: 8249:

SEQUENCE CHARACTERISTICS:
LENGTH: 86 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES

ORIGINAL SOURCE:
ORGANISM: Helicobacter pylori
FEATURE:
NAME/KEY: misc feature
LOCATION: (B) LOCATION 1...86

SEQUENCE DESCRIPTION: SEQ ID NO: 8249:
US-10-335-977-8249

Query Match
Best Local Similarity 100.0%; Score 19; DB 4; Length 86;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
DB 24 AOGV 27

RESULT 173
US-10-799-514-13
Sequence 13, Application US/10799514
Publication No. US20040241178A1
GENERAL INFORMATION:

APPLICANT: Spertini, Francois
TITLE OF INVENTION: Allergen Peptide Fragments and Use Thereof
FILE REFERENCE: 25720-502
CURRENT APPLICATION NUMBER: US/10/799,514
PRIOR FILING DATE: 2004-03-12
PRIOR APPLICATION NUMBER: 60/455,004
PRIOR FILING DATE: 2003-03-14
NUMBER OF SEQ ID NOS: 23
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 13
LENGTH: 86
TYPE: PRT
ORGANISM: Artificial Sequence

FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
OTHER INFORMATION: Peptide
US-10-799-514-13

Query Match
Best Local Similarity 100.0%; Score 19; DB 5; Length 86;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
DB 44 AOGV 47

RESULT 174
US-10-424-599-283838
Sequence 283838, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:

APPLICANT: La Rosa Thomas J
APPLICANT: Kovalic David K
APPLICANT: Zhou Yihua
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With

;; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
;; FILE REFERENCE: 38-21(53223)B
;; CURRENT APPLICATION NUMBER: US/10/424,599
;; CURRENT FILING DATE: 2003-04-28
;; NUMBER OF SEQ ID NOS: 285684
;; SEQ ID NO 283838
;; LENGTH: 87
;; TYPE: PRT
;; ORGANISM: Glycine max
;; FEATURE:
;; NAME/KEY: unsure
;; LOCATION: (1)..(87)
;; OTHER INFORMATION: unsure at all Xaa locations
;; FEATURE:
;; OTHER INFORMATION: Clone ID: PAT_MRT3847_98329C.1.pep
US-10-424-599-283838

Query Match 100.0%; Score 19; DB 4; Length 87;
Best Local Similarity 100.0%; Pred. No. 3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
|||
Db 37 ACGV 40

RESULT 175
US-10-437-963-123960
;; Sequence 123960, Application US/10437963
;; Publication No. US20040123343A1
;; GENERAL INFORMATION:
;; APPLICANT: La Rosa, Thomas J.
;; APPLICANT: Kovalic, David K.
;; APPLICANT: Zhou, Yihua
;; APPLICANT: Cao, Yongwei
;; APPLICANT: Wu, Wei
;; APPLICANT: Boukharov, Andrey A.
;; APPLICANT: Barbazuk, Brad
;; APPLICANT: Li, Ping
;; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
;; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
;; FILE REFERENCE: 38-21(53221)B
;; CURRENT APPLICATION NUMBER: US/10/437,963
;; CURRENT FILING DATE: 2003-05-14
;; NUMBER OF SEQ ID NOS: 204966
;; SEQ ID NO 123960
;; LENGTH: 87
;; TYPE: PRT
;; ORGANISM: Oryza sativa
;; FEATURE:
;; NAME/KEY: unsure
;; LOCATION: (1)..(87)
;; OTHER INFORMATION: unsure at all Xaa locations
;; FEATURE:
;; OTHER INFORMATION: Clone ID: PAT_MRT4530_26744C.1.pep
US-10-437-963-123960

Query Match 100.0%; Score 19; DB 4; Length 87;
Best Local Similarity 100.0%; Pred. No. 3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
|||
Db 41 ACGV 44

RESULT 176
US-09-989-920-196
;; Sequence 196, Application US/09989920
;; Patent No. US20020172957A1
;; GENERAL INFORMATION:
;; APPLICANT: Macina, Roberto
;; APPLICANT: Recipon, Herre

;; APPLICANT: Chen, Sei-Yu
;; APPLICANT: Sun, Yongming
;; APPLICANT: Liu, Chenghua
;; TITLE OF INVENTION: Compositions and Methods Relating to Lung Specific Genes and Proce
;; FILE REFERENCE: DEX-0291
;; CURRENT APPLICATION NUMBER: US/09/989,920
;; CURRENT FILING DATE: 2001-11-21
;; PRIOR APPLICATION NUMBER: 60/252,500
;; PRIOR FILING DATE: 2000-11-22
;; NUMBER OF SEQ ID NOS: 284
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 196
;; LENGTH: 88
;; TYPE: PRT
;; ORGANISM: Homo sapien
US-09-989-920-196

Query Match 100.0%; Score 19; DB 3; Length 88;
Best Local Similarity 100.0%; Pred. No. 3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
|||
Db 69 ACGV 72

RESULT 177
US-10-437-963-148963
;; Sequence 148963, Application US/10437963
;; Publication No. US20040123343A1
;; GENERAL INFORMATION:
;; APPLICANT: La Rosa, Thomas J.
;; APPLICANT: Kovalic, David K.
;; APPLICANT: Zhou, Yihua
;; APPLICANT: Cao, Yongwei
;; APPLICANT: Wu, Wei
;; APPLICANT: Boukharov, Andrey A.
;; APPLICANT: Barbazuk, Brad
;; APPLICANT: Li, Ping
;; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
;; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
;; FILE REFERENCE: 38-21(53221)B
;; CURRENT APPLICATION NUMBER: US/10/437,963
;; CURRENT FILING DATE: 2003-05-14
;; NUMBER OF SEQ ID NOS: 204966
;; SEQ ID NO 148963
;; LENGTH: 88
;; TYPE: PRT
;; ORGANISM: Oryza sativa
;; FEATURE:
;; OTHER INFORMATION: Clone ID: PAT_MRT4530_48342C.1.pep
US-10-437-963-148963

Query Match 100.0%; Score 19; DB 4; Length 88;
Best Local Similarity 100.0%; Pred. No. 3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
|||
Db 23 ACGV 26

RESULT 178
US-10-425-115-199844
;; Sequence 199844, Application US/10425115
;; Publication No. US20040214272A1
;; GENERAL INFORMATION:
;; APPLICANT: La Rosa, Thomas J.
;; APPLICANT: Kovalic, David K.
;; APPLICANT: Zhou, Yihua
;; APPLICANT: Cao, Yongwei
;; APPLICANT: Boukharov, Andrey A.
;; APPLICANT: Barbazuk, Brad
;; APPLICANT: Li, Ping
;; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;; TITLE OF INVENTION: Plants

FILE REFERENCE: 38-21(53222)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 199844
LENGTH: 88
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
OTHER INFORMATION: Clone ID: MRT4577_11384C.1.pep
US-10-425-115-199844

Query Match 100.0%; Score 19; DB 4; Length 88;
Best Local Similarity 100.0%; Pred. No. 3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AOGV 4
Db 80 AOGV 83

RESULT 179
US-10-425-115-353524
Sequence 353524, Application US/10425115
Publication No. US20040214272A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
TITLE OF INVENTION: Plants
FILE REFERENCE: 38-21(53222)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 353524
LENGTH: 88
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
OTHER INFORMATION: Clone ID: MRT4577_8558C.1.pep
US-10-425-115-353524

Query Match 100.0%; Score 19; DB 4; Length 88;
Best Local Similarity 100.0%; Pred. No. 3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AOGV 4
Db 65 AOGV 68

RESULT 180
US-10-424-599-173797
Sequence 173797, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53223)B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 173797
LENGTH: 89
TYPE: PRT
ORGANISM: Glycine max
FEATURE:

OTHER INFORMATION: Clone ID: PAT_MRT3847_127958C.1.pep
US-10-424-599-173797

Query Match 100.0%; Score 19; DB 4; Length 89;
Best Local Similarity 100.0%; Pred. No. 3.1e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AOGV 4
Db 12 AOGV 15

RESULT 181
US-10-693-367-14
Sequence 14, Application US/10693367
Publication No. US20040091992A1
GENERAL INFORMATION:
APPLICANT: The Trustees of Columbia University
APPLICANT: Minden, Audrey
TITLE OF INVENTION: PAK4, A NOVEL GENE ENCODING A SERINE/THREONINE KINASE
FILE REFERENCE: 575/55311-A-PCT-US
CURRENT APPLICATION NUMBER: US/10/693,367
CURRENT FILING DATE: 2003-10-24
PRIOR APPLICATION NUMBER: US/09/718,032
PRIOR FILING DATE: 2000-11-21
PRIOR APPLICATION NUMBER: PCT/US99/11341
PRIOR FILING DATE: 1999-05-21
PRIOR APPLICATION NUMBER: 09/082,737
PRIOR FILING DATE: 1998-05-21
NUMBER OF SEQ ID NOS: 17
SOFTWARE: PatentIn version 3.1
SEQ ID NO 14
LENGTH: 89
TYPE: PRT
ORGANISM: mouse
US-10-693-367-14

Query Match 100.0%; Score 19; DB 4; Length 89;
Best Local Similarity 100.0%; Pred. No. 3.1e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AOGV 4
Db 78 AOGV 81

RESULT 182
US-10-425-115-232359
Sequence 232359, Application US/10425115
Publication No. US20040214272A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
TITLE OF INVENTION: Plants
FILE REFERENCE: 38-21(53222)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 232359
LENGTH: 89
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
OTHER INFORMATION: Clone ID: MRT4577_143506C.1.pep
US-10-425-115-232359

Query Match 100.0%; Score 19; DB 4; Length 89;
Best Local Similarity 100.0%; Pred. No. 3.1e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
|||
DB 31 ACGV 34

RESULT 183

US-10-425-115-221841
; Sequence 221841, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 221841
; LENGTH: 90
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(90)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_133910C.1.pcp
US-10-425-115-221841

Query Match Best Local Similarity 100.0%; Score 19; DB 4; Length 90;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
|||
DB 27 ACGV 30

RESULT 184

US-10-424-599-282611
; Sequence 282611, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 282611
; LENGTH: 91
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PRT_MRT3847_97219C.1.pcp
US-10-424-599-282611

Query Match Best Local Similarity 100.0%; Score 19; DB 4; Length 91;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
|||
DB 23 ACGV 26

RESULT 185

US-10-767-701-58893
; Sequence 58893, Application US/10767701
; Publication No. US20040172684A1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53535)B
; CURRENT APPLICATION NUMBER: US/10/767,701
; CURRENT FILING DATE: 2004-01-29
; NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 58893
; LENGTH: 91
; TYPE: PRT
; ORGANISM: Sorghum bicolor
; FEATURE:
; OTHER INFORMATION: Clone ID: 6676508.pcp
US-10-767-701-58893

Query Match Best Local Similarity 100.0%; Score 19; DB 4; Length 91;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
|||
DB 17 ACGV 20

RESULT 186

US-10-425-115-215363
; Sequence 215363, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 215363
; LENGTH: 91
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_128008C.1.pcp
US-10-425-115-215363

Query Match Best Local Similarity 100.0%; Score 19; DB 4; Length 91;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
|||
DB 38 ACGV 41

RESULT 187

US-10-450-763-35010
; Sequence 35010, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; CURRENT FILING DATE: 2003-06-11

```

; PRIOR APPLICATION NUMBER: PCT/US01/06631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 35010
; LENGTH: 91
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-450-763-35010

Query Match
Best Local Similarity 100.0%; Score 19; DB 5; Length 91;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
Db 24 AOGV 27

RESULT 188
US-10-424-599-152428
; Sequence 152428, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 152428
; LENGTH: 92
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_108666C.1.pep
US-10-424-599-152428

Query Match
Best Local Similarity 100.0%; Score 19; DB 4; Length 92;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
Db 58 AOGV 61

RESULT 189
US-10-425-115-255856
; Sequence 255856, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 255856
; LENGTH: 92
; TYPE: PRT

; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_164933C.1.pep
US-10-425-115-255856

Query Match
Best Local Similarity 100.0%; Score 19; DB 4; Length 92;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
Db 24 AOGV 27

RESULT 190
US-10-509-055-4
; Sequence 4, Application US/10509055
; Publication No. US20050227354A1
; GENERAL INFORMATION:
; APPLICANT: SAGAWA, Hiroaki et al.
; TITLE OF INVENTION: PROCESS FOR PRODUCING CYTOTOXIC LYMPHOCYTE
; FILE REFERENCE: 1422-0644PUS1
; CURRENT APPLICATION NUMBER: US/10/509,055
; CURRENT FILING DATE: 2004-09-24
; PRIOR APPLICATION NUMBER: PCT/JP03/03575
; PRIOR FILING DATE: 2003-03-25
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patent-In 3.3
; SEQ ID NO 4
; LENGTH: 92
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: partial region of fibronectin named III-12
US-10-509-055-4

Query Match
Best Local Similarity 100.0%; Score 19; DB 5; Length 92;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
Db 84 AOGV 87

RESULT 191
US-10-424-599-176284
; Sequence 176284, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 176284
; LENGTH: 93
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(93)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_130201C.1.pep
US-10-424-599-176284

Query Match
Best Local Similarity 100.0%; Score 19; DB 4; Length 93;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

Best Local Similarity 100.0%; Pred. No. 3.2e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 ACGV 4
|||
Db 14 ACGV 17

RESULT 192
US-10-425-115-245408
; Sequence 245408, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 245408
; LENGTH: 93
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_155398C.1.pcp
US-10-425-115-245408

Query Match 100.0%; Score 19; DB 4; Length 93;
Best Local Similarity 100.0%; Pred. No. 3.2e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 ACGV 4
|||
Db 37 ACGV 40

RESULT 193
US-10-425-115-280821
; Sequence 280821, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 280821
; LENGTH: 93
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_1920C.1.pcp
US-10-425-115-280821

Query Match 100.0%; Score 19; DB 4; Length 93;
Best Local Similarity 100.0%; Pred. No. 3.2e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 ACGV 4
|||
Db 13 ACGV 16

RESULT 194

US-10-484-148-23
; Sequence 23, Application US/10484148
; Publication No. US20040248251A1
; GENERAL INFORMATION:
; APPLICANT: Lal, Preeti G.; HONCHELL, Cynthia D.;
; APPLICANT: FORSYTHE, Ian J.; CHAWLA, Narinder K.;
; APPLICANT: TANG, Y. Tom; BOROWSKY, Mark L.; BARROSO, Ines;
; APPLICANT: YUE, Henry; WARREN, Bridget A.;
; APPLICANT: THANGAVEILU, Kavitha; GIETZEN, Kimberly J.;
; APPLICANT: AZIMZAI, Yalda; LEE, Ernestine A.;
; APPLICANT: BAUGHN, Mariah R.; GORVAD, Ann E.;
; APPLICANT: DUGGAN, Brendan M.; TRAN, Bao;
; APPLICANT: LI, Joana X.; RICHARDSON, Thomas W.;
; APPLICANT: ELLIOTT, Vicki S.; ZEBARJADIAN, Yeganeh
; APPLICANT: TRAN, Uyen K.; YAO, Monique G.;
; APPLICANT: PETERSON, David P.; LUO, Wen
; TITLE OF INVENTION: RECEPTORS AND MEMBRANE ASSOCIATED PROTEINS
; FILE REFERENCE: PF-1082 USN
; CURRENT APPLICATION NUMBER: US/10/484,148
; CURRENT FILING DATE: 2004-01-15
; PRIOR APPLICATION NUMBER: PCT/US02/22833
; PRIOR FILING DATE: 2002-07-16
; PRIOR APPLICATION NUMBER: US 60/306,020
; PRIOR FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: US 60/308,179
; PRIOR FILING DATE: 2001-07-27
; PRIOR APPLICATION NUMBER: US 60/309,702
; PRIOR FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: US 60/311,476
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: US 60/311,718
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: US 60/311,551
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: US 60/314,798
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: US 60/316,639
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: US 60/317,996
; PRIOR FILING DATE: 2001-09-07
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PERL Program
; SEQ ID NO 23
; LENGTH: 93
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No: 1985321CD1
US-10-484-148-23

Query Match 100.0%; Score 19; DB 5; Length 93;
Best Local Similarity 100.0%; Pred. No. 3.2e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 ACGV 4
|||
Db 89 ACGV 92

RESULT 195
US-10-425-115-341122
; Sequence 341122, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B


```
;; CURRENT APPLICATION NUMBER: US/10/425,115
;; CURRENT FILING DATE: 2003-04-28
;; NUMBER OF SEQ ID NOS: 369326
;; SEQ ID NO 341122
;; LENGTH: 94
;; TYPE: PRT
;; ORGANISM: Zea mays
;; FEATURE:
;; OTHER INFORMATION: Clone ID: MRT4577_74271C.1.pep
US-10-425-115-341122
```

```
Query Match          100.0%; Score 19; DB 4; Length 94;
Best Local Similarity 100.0%; Pred. No. 3.3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 AOGV 4
        |||
Db       45 AOGV 48
```

```
RESULT 196
US-10-156-761-11115
; Sequence 11115, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
; APPLICANT: OMIURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; PRIOR FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 11115
; LENGTH: 95
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-11115
```

```
Query Match          100.0%; Score 19; DB 4; Length 95;
Best Local Similarity 100.0%; Pred. No. 3.3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 AOGV 4
        |||
Db       54 AOGV 57
```

```
RESULT 197
US-10-425-115-298069
; Sequence 298069, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 298069
; LENGTH: 95
```

```
;; TYPE: PRT
;; ORGANISM: Zea mays
;; FEATURE:
;; NAME/KEY: unsure
;; LOCATION: (1)..(95)
;; OTHER INFORMATION: unsure at all Xaa locations
;; FEATURE:
;; OTHER INFORMATION: Clone ID: MRT4577_34909C.1.pep
US-10-425-115-298069
```

```
Query Match          100.0%; Score 19; DB 4; Length 95;
Best Local Similarity 100.0%; Pred. No. 3.3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 AOGV 4
        |||
Db       42 AOGV 45
```

```
RESULT 198
US-10-425-115-314568
; Sequence 314568, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 314568
; LENGTH: 95
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_49944C.1.pep
US-10-425-115-314568
```

```
Query Match          100.0%; Score 19; DB 4; Length 95;
Best Local Similarity 100.0%; Pred. No. 3.3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 AOGV 4
        |||
Db       5 AOGV 8
```

```
RESULT 199
US-10-425-115-348114
; Sequence 348114, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 348114
; LENGTH: 95
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_80644C.1.pep
US-10-425-115-348114
```

Query Match 100.0%; Score 19; DB 4; Length 95;
Best Local Similarity 100.0%; Pred. No. 3.3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
||||
Db 52 ACGV 55

RESULT 200
US-10-424-599-220040
; Sequence 220040, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovacic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 220040
; LENGTH: 96
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(96)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_40725C.1.pcp
US-10-424-599-220040

Query Match 100.0%; Score 19; DB 4; Length 96;
Best Local Similarity 100.0%; Pred. No. 3.3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
||||
Db 73 ACGV 76

RESULT 201
US-10-437-963-186534
; Sequence 186534, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovacic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 186534
; LENGTH: 96
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_83325C.1.pcp
US-10-437-963-186534

Query Match 100.0%; Score 19; DB 4; Length 96;
Best Local Similarity 100.0%; Pred. No. 3.3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
||||
Db 77 ACGV 80

RESULT 202
US-10-767-701-48980
; Sequence 48980, Application US/10767701
; Publication No. US20040172684A1
; GENERAL INFORMATION:
; APPLICANT: Kovacic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53535)B
; CURRENT APPLICATION NUMBER: US/10/767,701
; CURRENT FILING DATE: 2004-01-29
; NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 48980
; LENGTH: 96
; TYPE: PRT
; ORGANISM: Sorghum bicolor
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3476-024-P1-K1-G11.pcp
US-10-767-701-48980

Query Match 100.0%; Score 19; DB 4; Length 96;
Best Local Similarity 100.0%; Pred. No. 3.3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
||||
Db 18 ACGV 21

RESULT 203
US-10-425-115-220279
; Sequence 220279, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovacic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 220279
; LENGTH: 96
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(96)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_13247C.1.pcp
US-10-425-115-220279

Query Match 100.0%; Score 19; DB 4; Length 96;
Best Local Similarity 100.0%; Pred. No. 3.3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
||||

Db 44 AOV 47

RESULT 204
US-10-437-963-198150
; Sequence 198150, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Mu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; PRIOR FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 198150
; LENGTH: 97
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_93839C.1.pep
US-10-437-963-198150

Query Match 100.0%; Score 19; DB 4; Length 97;
Best Local Similarity 100.0%; Pred. No. 3.3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AOV 4
|||
Db 89 AOV 92

RESULT 205
US-10-425-115-358132
; Sequence 358132, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 358132
; LENGTH: 97
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(97)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_89784C.1.pep
US-10-425-115-358132

Query Match 100.0%; Score 19; DB 4; Length 97;
Best Local Similarity 100.0%; Pred. No. 3.3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AOV 4
|||
Db 24 AOV 27

RESULT 206
US-10-501-282-1482
; Sequence 1482, Application US/10501282
; Publication No. US20050203280A1
; GENERAL INFORMATION:
; APPLICANT: MCNICHAE, JOHN CALHOUN
; APPLICANT: ZAGORSKY, ROBERT JOHN
; APPLICANT: RUSSELL, DAVID PARRISH
; APPLICANT: FLETCHER, LEAH DIANE
; TITLE OF INVENTION: ALLOIOCCUS OTTIDIS OPEN READING FRAMES (ORFS) ENCODING
; FILE REFERENCE: AM100780 L2
; CURRENT APPLICATION NUMBER: US/10/501,282
; PRIOR FILING DATE: 2004-07-09
; PRIOR APPLICATION NUMBER: 60/333,777
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: 60/426,742
; PRIOR FILING DATE: 2002-11-18
; PRIOR APPLICATION NUMBER: PCT/US02/36123
; PRIOR FILING DATE: 2002-11-25
; NUMBER OF SEQ ID NOS: 6653
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1482
; LENGTH: 97
; TYPE: PRT
; ORGANISM: Alloiococcus otitidis
US-10-501-282-1482

Query Match 100.0%; Score 19; DB 5; Length 97;
Best Local Similarity 100.0%; Pred. No. 3.3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AOV 4
|||
Db 43 AOV 46

RESULT 207
US-10-424-599-189929
; Sequence 189929, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 189929
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_142524C.1.pep
US-10-424-599-189929

Query Match 100.0%; Score 19; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 3.4e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AOV 4
|||
Db 15 AOV 18

RESULT 208
US-10-424-599-194380

Sequence 194380, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La Rosa Thomas J
APPLICANT: Kovacic David K
APPLICANT: Zhou Yihua
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53223)B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 194380
LENGTH: 98
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT3847_17552C.1.pep
US-10-424-599-194380

Query Match 100.0%; Score 19; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 3.4e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
Db 60 ACGV 63

RESULT 209
US-10-617-320-5200
Sequence 5200, Application US/10617320
Publication No. US20050136404A1
GENERAL INFORMATION:
APPLICANT: Lynn A Doucette-Stamm and David Bush
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID
SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE FOR DIAGNO
THERAPEUTICS
NUMBER OF SEQUENCES: 5206
CORRESPONDENCE ADDRESS:
ADDRESSEE: GENOME THERAPEUTICS CORPORATION
STREET: 100 Beaver Street
CITY: Waltham
STATE: Massachusetts
COUNTRY: USA
ZIP: 02354
COMPUTER READABLE FORM:
MEDIUM TYPE: CD-ROM ISO9660
COMPUTER: <Unknown>
OPERATING SYSTEM: <Unknown>
SOFTWARE: <Unknown>
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/617,320
FILING DATE: 10-Jul-2003
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/107,433
FILING DATE: 30-Jun-1998
APPLICATION NUMBER: 60/ 085131
FILING DATE: May 12, 1998
APPLICATION NUMBER: 60/051553
FILING DATE: July 2, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Arinello, Pamela Deneke
REGISTRATION NUMBER: 40,489
REFERENCE/DOCKET NUMBER: GTC-011
TELECOMMUNICATION INFORMATION:
TELEPHONE: (781)893-5007
TELEFAX: (781)893-8277
INFORMATION FOR SEQ ID NO: 5200:
SEQUENCE CHARACTERISTICS:
LENGTH: 99 amino acids
TYPE: amino acid

TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES
ORIGINAL SOURCE:
ORGANISM: Streptococcus pneumoniae
FEATURE:
NAME/KEY: misc feature
LOCATION: (B) LOCATION 1...99
SEQUENCE DESCRIPTION: SEQ ID NO: 5200:
US-10-617-320-5200

Query Match 100.0%; Score 19; DB 5; Length 99;
Best Local Similarity 100.0%; Pred. No. 3.4e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
Db 85 ACGV 88

RESULT 210
US-10-080-170-56
Sequence 56, Application US/10080170
Publication No. US20030129601A1
GENERAL INFORMATION:
APPLICANT: COLE, S.T.
TITLE OF INVENTION: COMPARATIVE MYCOBACTERIAL GENOMICS AS A TOOL FOR
IDENTIFYING TARGETS FOR THE DIAGNOSIS, PROPHYLAXIS OR
TREATMENT OF MYCOBACTERIOSIS
FILE REFERENCE: 03495.0218
CURRENT APPLICATION NUMBER: US/10/080,170
CURRENT FILING DATE: 2002-06-10
PRIOR APPLICATION NUMBER: 60/270,123
PRIOR FILING DATE: 2001-02-22
NUMBER OF SEQ ID NOS: 652
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 56
LENGTH: 100
TYPE: PRT
ORGANISM: Mycobacterium leprae
US-10-080-170-56

Query Match 100.0%; Score 19; DB 4; Length 100;
Best Local Similarity 100.0%; Pred. No. 3.4e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
Db 68 ACGV 71

RESULT 211
US-10-080-170-56
Sequence 56, Application US/10080170
Publication No. US20040121322A9
GENERAL INFORMATION:
APPLICANT: COLE, S.T.
TITLE OF INVENTION: COMPARATIVE MYCOBACTERIAL GENOMICS AS A TOOL FOR
IDENTIFYING TARGETS FOR THE DIAGNOSIS, PROPHYLAXIS OR
TREATMENT OF MYCOBACTERIOSIS
FILE REFERENCE: 03495.0218
CURRENT APPLICATION NUMBER: US/10/080,170
CURRENT FILING DATE: 2002-06-10
PRIOR APPLICATION NUMBER: 60/270,123
PRIOR FILING DATE: 2001-02-22
NUMBER OF SEQ ID NOS: 652
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 56
LENGTH: 100
TYPE: PRT
ORGANISM: Mycobacterium leprae
US-10-080-170-56

Query Match 100.0%; Score 19; DB 4; Length 100;
Best Local Similarity 100.0%; Pred. No. 3.4e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
68 AOGV 71

Db

RESULT 212
US-10-468-356-56
; Sequence 56, Application US/10468356
; Publication No. US20040197896A1
; GENERAL INFORMATION:
; APPLICANT: COLE, STEWART
; TITLE OF INVENTION: COMPARATIVE MYCOBACTERIAL GENOMICS AS A TOOL FOR
; TITLE OF INVENTION: IDENTIFYING TARGETS FOR THE DIAGNOSIS, PROPHYLAXIS OR
; TITLE OF INVENTION: TREATMENT OF MYCOBACTERIOSES
; FILE REFERENCE: 05394.0019
; CURRENT APPLICATION NUMBER: US/10/468,356
; CURRENT FILING DATE: 2003-08-19
; PRIOR APPLICATION NUMBER: 10/080,170
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/270,123
; PRIOR FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 655
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 56
; LENGTH: 100
; TYPE: PRT
; ORGANISM: Mycobacterium leprae
US-10-468-356-56

Query Match 100.0%; Score 19; DB 4; Length 100;
Best Local Similarity 100.0%; Pred. No. 3.4e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
68 AOGV 71

Db

RESULT 213
US-10-425-115-222178
; Sequence 222178, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 222178
; LENGTH: 100
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_134216C.1.pep
US-10-425-115-222178

Query Match 100.0%; Score 19; DB 4; Length 100;
Best Local Similarity 100.0%; Pred. No. 3.4e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
72 AOGV 75

Db

RESULT 214
US-10-425-115-289173
; Sequence 289173, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 289173
; LENGTH: 100
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_26816C.1.pep
US-10-425-115-289173

Query Match 100.0%; Score 19; DB 4; Length 100;
Best Local Similarity 100.0%; Pred. No. 3.4e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
64 AOGV 67

Db

RESULT 215
US-09-864-408A-2992
; Sequence 2992, Application US/09864408A
; Publication No. US20040009474A1
; GENERAL INFORMATION:
; APPLICANT: Leach, Martin D.
; APPLICANT: Shimkets, Richard A.
; TITLE OF INVENTION: No. US20040009474A1 Human Polynucleotides and Polypeptides Enco
; FILE REFERENCE: 21402-012
; CURRENT APPLICATION NUMBER: US/09/864,408A
; CURRENT FILING DATE: 2001-05-24
; PRIOR APPLICATION NUMBER: 60/206,690
; PRIOR FILING DATE: 2000-05-24
; NUMBER OF SEQ ID NOS: 9068
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2992
; LENGTH: 101
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-864-408A-2992

Query Match 100.0%; Score 19; DB 3; Length 101;
Best Local Similarity 100.0%; Pred. No. 3.5e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
77 AOGV 80

Db

RESULT 216
US-10-437-963-121960
; Sequence 121960, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei

```
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 121960
; LENGTH: 101
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(101)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_24934C.1.pep
; US-10-437-963-121960
```

```
Query Match          100.0%; Score 19; DB 4; Length 101;
Best Local Similarity 100.0%; Pred. No. 3.5e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 ACGV 4      ||||
Db      68 ACGV 71
```

RESULT 217

```
US-10-450-763-32365
; Sequence 32365, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; CURRENT FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 32365
; LENGTH: 101
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(101)
; OTHER INFORMATION: Xaa = X or * as defined in Table 2
; US-10-450-763-32365
```

```
Query Match          100.0%; Score 19; DB 5; Length 101;
Best Local Similarity 100.0%; Pred. No. 3.5e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 ACGV 4      ||||
Db      46 ACGV 49
```

RESULT 218

```
US-10-450-763-54297
; Sequence 54297, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc
```

```
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; CURRENT FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 54297
; LENGTH: 101
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(101)
; OTHER INFORMATION: Xaa = X or * as defined in Table 2
; US-10-450-763-54297
```

```
Query Match          100.0%; Score 19; DB 5; Length 101;
Best Local Similarity 100.0%; Pred. No. 3.5e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 ACGV 4      ||||
Db      46 ACGV 49
```

RESULT 219

```
US-10-101-464A-699
; Sequence 699, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020c2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 699
; LENGTH: 102
; TYPE: PRT
; ORGANISM: Pinus radiata
; US-10-101-464A-699
```

```
Query Match          100.0%; Score 19; DB 4; Length 102;
Best Local Similarity 100.0%; Pred. No. 3.5e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 ACGV 4      ||||
Db      31 ACGV 34
```

RESULT 220

```
US-10-080-170-301
; Sequence 301, Application US/10080170
; Publication No. US20030129601A1
```

```

; GENERAL INFORMATION:
; APPLICANT: COLE, S.T.
; TITLE OF INVENTION: COMPARATIVE MYCOBACTERIAL GENOMICS AS A TOOL FOR
; TITLE OF INVENTION: IDENTIFYING TARGETS FOR THE DIAGNOSIS, PROPHYLAXIS OR
; FILE REFERENCE: 03495, 0218
; CURRENT APPLICATION NUMBER: US/10/080,170
; PRIOR FILING DATE: 2002-06-10
; PRIOR APPLICATION NUMBER: 60/270,123
; NUMBER OF SEQ ID NOS: 652
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 301
; LENGTH: 102
; TYPE: PRT
; ORGANISM: Mycobacterium leprae
US-10-080-170-301

Query Match      100.0%; Score 19; DB 4; Length 102;
Best Local Similarity 100.0%; Pred. No. 3.5e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AQGV 4
        ||||
Db       66 AQGV 69

RESULT 221
US-10-424-599-159264
; Sequence 159264, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J
; APPLICANT: Kovalic, David K
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 159264
; LENGTH: 102
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(102)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_114836C.1.pep
US-10-424-599-159264

Query Match      100.0%; Score 19; DB 4; Length 102;
Best Local Similarity 100.0%; Pred. No. 3.5e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AQGV 4
        ||||
Db       3 AQGV 6

RESULT 222
US-10-080-170-301
; Sequence 301, Application US/10080170
; Publication No. US20040121322A9
; GENERAL INFORMATION:
; APPLICANT: COLE, S.T.
; TITLE OF INVENTION: COMPARATIVE MYCOBACTERIAL GENOMICS AS A TOOL FOR
; TITLE OF INVENTION: IDENTIFYING TARGETS FOR THE DIAGNOSIS, PROPHYLAXIS OR
; TITLE OF INVENTION: TREATMENT OF MYCOBACTERIOSES
; FILE REFERENCE: 03495, 0218
```

```

; CURRENT APPLICATION NUMBER: US/10/080,170
; CURRENT FILING DATE: 2002-06-10
; PRIOR APPLICATION NUMBER: 60/270,123
; PRIOR FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 652
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 301
; LENGTH: 102
; TYPE: PRT
; ORGANISM: Mycobacterium leprae
US-10-080-170-301

Query Match      100.0%; Score 19; DB 4; Length 102;
Best Local Similarity 100.0%; Pred. No. 3.5e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AQGV 4
        ||||
Db       66 AQGV 69

RESULT 223
US-10-468-356-301
; Sequence 301, Application US/10468356
; Publication No. US20040197896A1
; GENERAL INFORMATION:
; APPLICANT: COLE, STEWART
; TITLE OF INVENTION: COMPARATIVE MYCOBACTERIAL GENOMICS AS A TOOL FOR
; TITLE OF INVENTION: IDENTIFYING TARGETS FOR THE DIAGNOSIS, PROPHYLAXIS OR
; FILE REFERENCE: 05394, 0019
; CURRENT APPLICATION NUMBER: US/10/468,356
; CURRENT FILING DATE: 2003-08-19
; PRIOR APPLICATION NUMBER: 10/080,170
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/270,123
; PRIOR FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 655
; SOFTWARE: Patentin Ver. 3.2
; SEQ ID NO 301
; LENGTH: 102
; TYPE: PRT
; ORGANISM: Mycobacterium leprae
US-10-468-356-301

Query Match      100.0%; Score 19; DB 4; Length 102;
Best Local Similarity 100.0%; Pred. No. 3.5e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AQGV 4
        ||||
Db       66 AQGV 69

RESULT 224
US-10-425-115-265628
; Sequence 265628, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 265628
; LENGTH: 102
; TYPE: PRT
; ORGANISM: Zea mays
```

```
FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(102)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_173859C.1.pep
US-10-425-115-265628
```

```
Query Match          100.0%; Score 19; DB 4; Length 102;
Best Local Similarity 100.0%; Pred. No. 3.5e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 ACGV 4
      ||||
Db      84 ACGV 87
```

```
RESULT 225
US-10-864-252-699
; Sequence 699, Application US/10864252
; Publication No. US2005050583A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.10203
; CURRENT APPLICATION NUMBER: US/10/864,252
; CURRENT FILING DATE: 2004-06-09
; PRIOR APPLICATION NUMBER: 10/101,464
; PRIOR FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 699
; LENGTH: 102
; TYPE: PRT
; ORGANISM: Pinus radiata
US-10-864-252-699
```

```
Query Match          100.0%; Score 19; DB 5; Length 102;
Best Local Similarity 100.0%; Pred. No. 3.5e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 ACGV 4
      ||||
Db      31 ACGV 34
```

```
RESULT 226
US-10-424-599-179799
; Sequence 179799, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J
; APPLICANT: Kovacic, David K
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 179799
```

```
LENGTH: 103
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_133374C.1.pep
US-10-424-599-179799
```

```
Query Match          100.0%; Score 19; DB 4; Length 103;
Best Local Similarity 100.0%; Pred. No. 3.5e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 ACGV 4
      ||||
Db      73 ACGV 76
```

```
RESULT 227
US-10-424-599-261546
; Sequence 261546, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J
; APPLICANT: Kovacic, David K
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 261546
; LENGTH: 103
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(103)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_78199C.1.pep
US-10-424-599-261546
```

```
Query Match          100.0%; Score 19; DB 4; Length 103;
Best Local Similarity 100.0%; Pred. No. 3.5e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 ACGV 4
      ||||
Db      38 ACGV 41
```

```
RESULT 228
US-10-424-599-198118
; Sequence 198118, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J
; APPLICANT: Kovacic, David K
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 198118
; LENGTH: 104
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
```


LOCATION: (1)..(104)
OTHER INFORMATION: unsure at all Xaa locations
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT3847_209255C.1.pcp
US-10-424-599-198118

Query Match
Best Local Similarity 100.0%; Score 19; DB 4; Length 104;
Best Local Similarity 100.0%; Pred. No. 3.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
Db 87 AOGV 90

RESULT 229
US-10-424-599-244826
Sequence 244826, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53223)B
CURRENT FILING DATE: 2003-04-28
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 244826
LENGTH: 104
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
NAME/KEY: unsure
LOCATION: (1)..(104)
OTHER INFORMATION: unsure at all Xaa locations
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT3847_63107C.1.pcp
US-10-424-599-244826

Query Match
Best Local Similarity 100.0%; Score 19; DB 4; Length 104;
Best Local Similarity 100.0%; Pred. No. 3.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
Db 100 AOGV 103

RESULT 230
US-10-425-115-205212
Sequence 205212, Application US/10425115
Publication No. US20040214272A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
TITLE OF INVENTION: Plants
FILE REFERENCE: 38-21(53223)B
CURRENT FILING DATE: 2003-04-28
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 205212
LENGTH: 104
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
NAME/KEY: unsure
LOCATION: (1)..(104)

OTHER INFORMATION: unsure at all Xaa locations
FEATURE:
OTHER INFORMATION: Clone ID: MRT4577_118742C.1.pcp
US-10-425-115-205212

Query Match
Best Local Similarity 100.0%; Score 19; DB 4; Length 104;
Best Local Similarity 100.0%; Pred. No. 3.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
Db 84 AOGV 87

RESULT 231
US-10-425-115-273311
Sequence 273311, Application US/10425115
Publication No. US20040214272A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
TITLE OF INVENTION: Plants
FILE REFERENCE: 38-21(53223)B
CURRENT FILING DATE: 2003-04-28
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 273311
LENGTH: 104
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
OTHER INFORMATION: Clone ID: MRT4577_180845C.1.pcp
US-10-425-115-273311

Query Match
Best Local Similarity 100.0%; Score 19; DB 4; Length 104;
Best Local Similarity 100.0%; Pred. No. 3.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
Db 5 AOGV 8

RESULT 232
US-10-424-599-258231
Sequence 258231, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53223)B
CURRENT FILING DATE: 2003-04-28
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 258231
LENGTH: 105
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT3847_75205C.1.pcp
US-10-424-599-258231

Query Match
Best Local Similarity 100.0%; Score 19; DB 4; Length 105;
Best Local Similarity 100.0%; Pred. No. 3.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
||||
Db 73 ACGV 76

RESULT 233

US-10-437-963-187330
; Sequence 187330, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 187330
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_84043C.1.pep
US-10-437-963-187330

Query Match 100.0%; Score 19; DB 4; Length 105;
Best Local Similarity 100.0%; Pred. No. 3.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
||||
Db 47 ACGV 50

RESULT 234

US-10-424-599-207947
; Sequence 207947, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 207947
; LENGTH: 106
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(106)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_29802C.1.pep
US-10-424-599-207947

Query Match 100.0%; Score 19; DB 4; Length 106;
Best Local Similarity 100.0%; Pred. No. 3.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4

Db 78 ACGV 81

RESULT 235

US-10-437-963-124557
; Sequence 124557, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 124557
; LENGTH: 106
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_27284C.1.pep
US-10-437-963-124557

Query Match 100.0%; Score 19; DB 4; Length 106;
Best Local Similarity 100.0%; Pred. No. 3.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
||||
Db 14 ACGV 17

RESULT 236

US-10-425-115-197558
; Sequence 197558, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 197558
; LENGTH: 106
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_111756C.1.pep
US-10-425-115-197558

Query Match 100.0%; Score 19; DB 4; Length 106;
Best Local Similarity 100.0%; Pred. No. 3.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
||||
Db 102 ACGV 105

RESULT 237

```
US-10-425-115-354333
; Sequence 354333, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; NUMBER OF SEQ ID NOS: 2003-04-28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 354333
; LENGTH: 106
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(106)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_86323C.1.pap
US-10-425-115-354333

Query Match          100.0%; Score 19; DB 4; Length 106;
Best Local Similarity 100.0%; Pred. No. 3.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 A QGV 4
        ||||
Db       45 A QGV 48

RESULT 238
US-10-775-481A-55
; Sequence 55, Application US/10775481A
; Publication No. US20040258687A1
; GENERAL INFORMATION:
; APPLICANT: Waldman, Scott A.
; APPLICANT: Pitarri, Giovanni Mario
; APPLICANT: Park, Jason
; APPLICANT: Schulz, Stephanie
; APPLICANT: Wolfe, Henry R.
; APPLICANT: Lubbe, Wilhelm
; TITLE OF INVENTION: The Use Of GCC Ligands
; FILE REFERENCE: 08321-0168 US1
; CURRENT APPLICATION NUMBER: US/10/775,481A
; CURRENT FILING DATE: 2004-02-10
; PRIOR APPLICATION NUMBER: US 60/446,730
; PRIOR FILING DATE: 2003-02-10
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 55
; LENGTH: 106
; TYPE: PRT
; ORGANISM: Rattus norvegicus
US-10-775-481A-55

Query Match          100.0%; Score 19; DB 5; Length 106;
Best Local Similarity 100.0%; Pred. No. 3.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 A QGV 4
        ||||
Db       19 A QGV 22

RESULT 239
US-09-800-095A-104
; Sequence 104, Application US/09800095A
; Publication No. US20020086988A1

; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
; APPLICANT: Presnell, Scott R.
; APPLICANT: Adler, David A.
; TITLE OF INVENTION: FULL LENGTH EXPRESS POLYNUCLEOTIDES AND THE POLYPEPTIDES THEY ENC
; FILE REFERENCE: 00-09
; CURRENT APPLICATION NUMBER: US/09/800,095A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: 60/187,221
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 104
; LENGTH: 107
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-800-095A-104

Query Match          100.0%; Score 19; DB 3; Length 107;
Best Local Similarity 100.0%; Pred. No. 3.7e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 A QGV 4
        ||||
Db       38 A QGV 41

RESULT 240
US-09-833-245-1848
; Sequence 1848, Application US/09833245
; Publication No. US20040010134A1
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PF546PCT
; CURRENT APPLICATION NUMBER: US/09/833,245
; CURRENT FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: 60/229,358
; PRIOR FILING DATE: 2000-04-12
; PRIOR APPLICATION NUMBER: 60/256,931
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: 60/199,384
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 2267
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 1848
; LENGTH: 107
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-833-245-1848

Query Match          100.0%; Score 19; DB 3; Length 107;
Best Local Similarity 100.0%; Pred. No. 3.7e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 A QGV 4
        ||||
Db       73 A QGV 76

RESULT 241
US-10-424-599-161119
; Sequence 161119, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
```

```

; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 16119
; LENGTH: 107
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(107)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_116508C.1.pep
; US-10-424-599-16119

Query Match          100.0%; Score 19; DB 4; Length 107;
Best Local Similarity 100.0%; Pred. No. 3.7e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AOGV 4
Db      7 AOGV 10

RESULT 242
US-10-424-599-177891
; Sequence 177891, Application US/10424539
; Publication NO. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 177891
; LENGTH: 107
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(107)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_131651C.1.pep
; US-10-424-599-177891

Query Match          100.0%; Score 19; DB 4; Length 107;
Best Local Similarity 100.0%; Pred. No. 3.7e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AOGV 4
Db      90 AOGV 93

RESULT 243
US-10-425-115-291289
; Sequence 291289, Application US/10425115
; Publication NO. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
```

```

; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 291289
; LENGTH: 107
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(107)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_28742C.1.pep
; US-10-425-115-291289

Query Match          100.0%; Score 19; DB 4; Length 107;
Best Local Similarity 100.0%; Pred. No. 3.7e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AOGV 4
Db      65 AOGV 68

RESULT 244
US-10-425-115-294264
; Sequence 294264, Application US/10425115
; Publication NO. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 294264
; LENGTH: 108
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_31455C.1.pep
; US-10-425-115-294264

Query Match          100.0%; Score 19; DB 4; Length 108;
Best Local Similarity 100.0%; Pred. No. 3.7e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AOGV 4
Db      48 AOGV 51

RESULT 245
US-10-437-963-180999
; Sequence 180999, Application US/10437963
; Publication NO. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
```

```
; SEQ ID NO 180999
; LENGTH: 109
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(109)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_78315C.1.pep
US-10-437-963-180999
```

```
Query Match          100.0%; Score 19; DB 4; Length 109;
Best Local Similarity 100.0%; Pred. No. 3.7e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 AOGV 4
        ||||
Db       55 AOGV 58
```

```
RESULT 246
US-10-425-115-260668
; Sequence 260668, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 260668
; LENGTH: 109
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_169344C.1.pep
US-10-425-115-260668
```

```
Query Match          100.0%; Score 19; DB 4; Length 109;
Best Local Similarity 100.0%; Pred. No. 3.7e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 AOGV 4
        ||||
Db       58 AOGV 61
```

```
RESULT 247
US-10-425-115-280327
; Sequence 280327, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 280327
; LENGTH: 109
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
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; NAME/KEY: unsure
; LOCATION: (1)..(109)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_18760C.1.pep
US-10-425-115-280327
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Query Match          100.0%; Score 19; DB 4; Length 109;
Best Local Similarity 100.0%; Pred. No. 3.7e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
OY      1 AOGV 4
        ||||
Db       44 AOGV 47
```

```
RESULT 248
US-10-425-115-361658
; Sequence 361658, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 361658
; LENGTH: 109
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_93009C.1.pep
US-10-425-115-361658
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Query Match          100.0%; Score 19; DB 4; Length 109;
Best Local Similarity 100.0%; Pred. No. 3.7e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
OY      1 AOGV 4
        ||||
Db       38 AOGV 41
```

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RESULT 249
US-10-424-599-164976
; Sequence 164976, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 164976
; LENGTH: 110
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_119991C.1.pep
US-10-424-599-164976
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Query Match          100.0%; Score 19; DB 4; Length 110;
Best Local Similarity 100.0%; Pred. No. 3.8e+03;
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Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ACGV 4
| | | |
Db 26 ACGV 29

RESULT 250

US-10-425-115-352048
; Sequence 352048, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 352048
; LENGTH: 110
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MFT4577_84232C.1.pep
US-10-425-115-352048

Query Match 100.0%; Score 19; DB 4; Length 110;

Best Local Similarity 100.0%; Pred. No. 3.8e+03; Indels 0; Gaps 0;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
| | | |
Db 23 ACGV 26

Search completed: February 21, 2006, 09:19:43
Job time : 128 secs

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioacceleration Ltd.

OM protein - protein search, using sw model

Run on: February 21, 2006, 08:56:13 ; Search time 33 Seconds
(without alignments)
10.021 Million cell updates/sec

Title: US-10-821-256-2

Perfect score: 19

Sequence: 1 AOGV 4

Scoring table:

BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database :

Issued Patents AA:*
1: /cgn2_6/ptodata/1/1aa/5-COMB.pep:*
2: /cgn2_6/ptodata/1/1aa/6-COMB.pep:*
3: /cgn2_6/ptodata/1/1aa/H-COMB.pep:*
4: /cgn2_6/ptodata/1/1aa/PCTUS-COMB.pep:*
5: /cgn2_6/ptodata/1/1aa/RB-COMB.pep:*
6: /cgn2_6/ptodata/1/1aa/backfilest.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	19	100.0	8	2	US-08-884-235-10
2	19	100.0	10	2	US-10-122-675-28
3	19	100.0	15	2	US-09-220-415-37
4	19	100.0	15	2	US-09-675-776-37
5	19	100.0	15	2	US-09-676-739-37
6	19	100.0	15	2	US-09-676-362-37
7	19	100.0	15	2	US-09-677-152-37
8	19	100.0	19	2	US-10-394-980-6
9	19	100.0	21	2	US-09-936-588-8
10	19	100.0	22	1	US-08-482-142-24
11	19	100.0	22	1	US-08-478-572-24
12	19	100.0	22	1	US-08-484-296-24
13	19	100.0	22	4	PCT-US95-04481-15
14	19	100.0	23	1	US-08-482-142-40
15	19	100.0	23	1	US-08-478-572-40
16	19	100.0	23	2	US-08-484-296-40
17	19	100.0	23	2	US-08-933-100B-3
18	19	100.0	24	1	US-08-141-324-22
19	19	100.0	24	1	US-08-541-902-22
20	19	100.0	25	1	US-08-482-142-38
21	19	100.0	25	1	US-08-478-572-38
22	19	100.0	25	2	US-08-484-296-38
23	19	100.0	25	2	US-09-596-120-9
24	19	100.0	26	1	US-07-879-685B-2
25	19	100.0	27	1	US-08-821-119-6
26	19	100.0	27	1	US-08-900-660A-6
27	19	100.0	29	1	US-08-482-142-39

28	19	100.0	29	1	US-08-478-572-39	Sequence 39, Appl
29	19	100.0	29	2	US-08-484-296-39	Sequence 39, Appl
30	19	100.0	34	1	US-07-700-526-7	Sequence 7, Appl
31	19	100.0	34	4	PCT-US92-03132-7	Sequence 7, Appl
32	19	100.0	37	1	US-08-164-151-14	Sequence 14, Appl
33	19	100.0	38	2	US-09-092-315-22	Sequence 22, Appl
34	19	100.0	38	2	US-09-733-524A-22	Sequence 22, Appl
35	19	100.0	40	2	US-10-189-977A-22	Sequence 11, Appl
36	19	100.0	40	2	US-08-096-044C-11	Sequence 11, Appl
37	19	100.0	60	2	US-09-252-991A-27289	Sequence 27289, A
38	19	100.0	62	2	US-09-489-039A-8531	Sequence 8531, A
39	19	100.0	64	2	US-09-248-796A-26843	Sequence 26843, A
40	19	100.0	65	2	US-09-489-039A-13242	Sequence 13242, A
41	19	100.0	65	2	US-09-513-999C-6489	Sequence 6489, Ap
42	19	100.0	69	2	US-08-792-013-1	Sequence 1, Appl
43	19	100.0	71	2	US-09-471-276-1548	Sequence 1548, Ap
44	19	100.0	72	1	US-08-225-480-6	Sequence 6, Appl
45	19	100.0	72	2	US-09-118-445-6	Sequence 6, Appl

ALIGNMENTS

RESULT 1
US-08-884-235-10
Sequence 10, Application US/0884235
Patent No. 6329573
GENERAL INFORMATION:
APPLICANT: Lightfoot, David A.
APPLICANT: Long, Lynn M.
APPLICANT: Lightfoot, Maria E. Vidal
TITLE OF INVENTION: PLANTS CONTAINING THE gdhA GENE AND
TITLE OF INVENTION: METHODS OF USE THEREOF
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pillsbury Madison & Sutro, L.L.P.
STREET: 1100 New York Avenue, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: United States of America
ZIP: 20005-3918
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: MS Word
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/884,235
FILING DATE: 27-JUN-1997
CLASSIFICATION: 800
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 8 residues
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant
MOLECULE TYPE: protein
US-08-884-235-10

Query Match 100.0%; Score 19; DB 2; Length 8;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
DB 4 AOGV 7

RESULT 2
US-10-122-675-28
Sequence 28, Application US/10122675
Patent No. 6527031
GENERAL INFORMATION:

APPLICANT: Anderson, David
APPLICANT: Li, Weigun
APPLICANT: Lu, Henry
APPLICANT: Rigol Pharmaceuticals, Inc.
TITLE OF INVENTION: Methods for Identifying Polypeptide Factors Interacting
TITLE OF INVENTION: With RNA
FILE REFERENCE: 021044-002000US
CURRENT APPLICATION NUMBER: US/10/122,675
CURRENT FILING DATE: 2002-10-31
NUMBER OF SEQ ID NOS: 29
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 28
LENGTH: 10
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: inosine
OTHER INFORMATION: monophosphate dehydrogenase (IMPDH) peptide
US-10-122-675-28

Query Match 100.0%; Score 19; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 97;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOCV 4
|||
DB 4 AOCV 7

RESULT 3
US-09-220-415-37
Sequence 37, Application US/09220415
Patent No. 6583109
GENERAL INFORMATION:
APPLICANT: Gallo, Robert C.
APPLICANT: Bryant, Joseph
APPLICANT: Lunardi-Ikandari, Yanto
TITLE OF INVENTION: Therapeutic Polypeptides from (-hCG and Derivatives
NUMBER OF SEQUENCES: 37
CORRESPONDENCE ADDRESS:
ADDRESSEE: Intellectual Property/Technology Law
STREET: P.O. Box 14329
CITY: Research Triangle Park
STATE: NC
COUNTRY: USA
ZIP: 27709
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: Patentin
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/220,415
FILING DATE: 24-DEC-1998
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US97/11210
FILING DATE: 24-JUN-1998
APPLICATION NUMBER: PCT/US97/11209
FILING DATE: 24-JUN-1998
APPLICATION NUMBER: PCT/US97/11448
FILING DATE: 24-JUN-1998
APPLICATION NUMBER: PCT/US97/11202
FILING DATE: 24-JUN-1998
ATTORNEY/AGENT INFORMATION:
NAME: Steven J. Hultquist
REGISTRATION NUMBER: 28,021
REFERENCE/DOCKET NUMBER: 4115-116
TELECOMMUNICATION INFORMATION:
TELEPHONE: 919-419-9350
TELEFAX: 919-419-9354
INFORMATION FOR SEQ ID NO: 37:
SEQUENCE CHARACTERISTICS:

LENGTH: 15 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-220-415-37

Query Match 100.0%; Score 19; DB 2; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.5e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOCV 4
|||
DB 3 AOCV 6

RESULT 4
US-09-675-776-37
Sequence 37, Application US/09675776
Patent No. 6596688
GENERAL INFORMATION:
APPLICANT: Gallo, Robert C.
APPLICANT: Bryant, Joseph
APPLICANT: Lunardi-Ikandari, Yanto
TITLE OF INVENTION: METHOD FOR PROMOTING HEMATOPOIESIS
NUMBER OF SEQUENCES: 37
CORRESPONDENCE ADDRESS:
ADDRESSEE: Intellectual Property/Technology Law
STREET: P.O. Box 14329
CITY: Research Triangle Park
STATE: NC
COUNTRY: USA
ZIP: 27709
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: Patentin
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/675,776
FILING DATE: 29-Sep-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/220,415
FILING DATE: 24-DEC-1998
APPLICATION NUMBER: PCT/US97/11210
FILING DATE: 24-JUN-1998
APPLICATION NUMBER: PCT/US97/11209
FILING DATE: 24-JUN-1998
APPLICATION NUMBER: PCT/US97/11448
FILING DATE: 24-JUN-1998
APPLICATION NUMBER: PCT/US97/11202
FILING DATE: 24-JUN-1998
ATTORNEY/AGENT INFORMATION:
NAME: Marianne Fulerer
REGISTRATION NUMBER: 39,983
REFERENCE/DOCKET NUMBER: 4115-116 DIV2
TELECOMMUNICATION INFORMATION:
TELEPHONE: 919-419-9350
TELEFAX: 919-419-9354
INFORMATION FOR SEQ ID NO: 37:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 37:
US-09-675-776-37

Query Match 100.0%; Score 19; DB 2; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.5e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AOV 4
Db 3 AOV 6

RESULT 5

US-09-676-739-37

; Sequence 37, Application US/09676739

; Patent No. 6620416

; GENERAL INFORMATION:

APPLICANT: Gallo, Robert C.

Bryant, Joseph

Lunardi-Iskandar, Yanto

TITLE OF INVENTION: METHOD FOR TREATING HIV

NUMBER OF SEQUENCES: 37

CORRESPONDENCE ADDRESS:

ADDRESS: Intellectual Property/Technology Law

STREET: P.O. Box 14329

CITY: Research Triangle Park

STATE: NC

COUNTRY: USA

ZIP: 27709

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: PatentIn

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/676,739

FILING DATE: 29-Sep-2000

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/220,415

FILING DATE: 24-DEC-1998

APPLICATION NUMBER: PCT/US97/11210

FILING DATE: 24-JUN-1998

APPLICATION NUMBER: PCT/US97/11209

FILING DATE: 24-JUN-1998

APPLICATION NUMBER: PCT/US97/11448

FILING DATE: 24-JUN-1998

APPLICATION NUMBER: PCT/US97/11202

FILING DATE: 24-JUN-1998

ATTORNEY/AGENT INFORMATION:

NAME: Marianne Fullerer

REGISTRATION NUMBER: 39,983

REFERENCE/DOCKET NUMBER: 4115-116 DIV1

TELECOMMUNICATION INFORMATION:

TELEPHONE: 919-419-9350

TELEFAX: 919-419-9354

INFORMATION FOR SEQ ID NO: 37:

SEQUENCE CHARACTERISTICS:

LENGTH: 15 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO: 37:

US-09-676-739-37

Query Match 100.0%; Score 19; DB 2; Length 15;

Best Local Similarity 100.0%; Pred. No. 1.5e+02;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AOV 4

Db 3 AOV 6

RESULT 6

US-09-675-362-37

; Sequence 37, Application US/09675362

; Patent No. 6699834

GENERAL INFORMATION:

APPLICANT: Gallo, Robert C.

Bryant, Joseph

Lunardi-Iskandar, Yanto

TITLE OF INVENTION: METHOD FOR TREATING CANCER

NUMBER OF SEQUENCES: 37

CORRESPONDENCE ADDRESS:

ADDRESS: Intellectual Property/Technology Law

STREET: P.O. Box 14329

CITY: Research Triangle Park

STATE: NC

COUNTRY: USA

ZIP: 27709

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: PatentIn

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/675,362

FILING DATE: 29-Sep-2000

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/220,415

FILING DATE: 24-DEC-1998

APPLICATION NUMBER: PCT/US97/11210

FILING DATE: 24-JUN-1998

APPLICATION NUMBER: PCT/US97/11209

FILING DATE: 24-JUN-1998

APPLICATION NUMBER: PCT/US97/11448

FILING DATE: 24-JUN-1998

APPLICATION NUMBER: PCT/US97/11202

FILING DATE: 24-JUN-1998

ATTORNEY/AGENT INFORMATION:

NAME: Marianne Fullerer

REGISTRATION NUMBER: 39,983

REFERENCE/DOCKET NUMBER: 4115-116 DIV3

TELECOMMUNICATION INFORMATION:

TELEPHONE: 919-419-9354

TELEFAX: 919-419-9350

INFORMATION FOR SEQ ID NO: 37:

SEQUENCE CHARACTERISTICS:

LENGTH: 15 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO: 37:

US-09-675-362-37

Query Match 100.0%; Score 19; DB 2; Length 15;

Best Local Similarity 100.0%; Pred. No. 1.5e+02;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AOV 4

Db 3 AOV 6

RESULT 7

US-09-677-152-37

; Sequence 37, Application US/09677152

; Patent No. 6805882

; GENERAL INFORMATION:

APPLICANT: Gallo, Robert C.

Bryant, Joseph

Lunardi-Iskandar, Yanto

TITLE OF INVENTION: Therapeutic Fractions of Sources of hCG

NUMBER OF SEQUENCES: 37

CORRESPONDENCE ADDRESS:

ADDRESS: Intellectual Property/Technology Law

STREET: P.O. Box 14329

CITY: Research Triangle Park

```

; STATE: NC
; COUNTRY: USA
; ZIP: 27709
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: PatentIn
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/677,152
; FILING DATE: 02-Oct-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US97/11210
; FILING DATE: 24-JUN-1998
; APPLICATION NUMBER: PCT/US97/11209
; FILING DATE: 24-JUN-1998
; APPLICATION NUMBER: PCT/US97/11448
; FILING DATE: 24-JUN-1998
; APPLICATION NUMBER: PCT/US97/11202
; FILING DATE: 24-JUN-1998
; APPLICATION NUMBER: USSN 09/220,415
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Steven J. Hultquist
; REGISTRATION NUMBER: 28,021
; REFERENCE/DOCKET NUMBER: 4115-116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 919-419-9350
; TELEFAX: 919-419-9354
; INFORMATION FOR SEQ ID NO: 37:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 37:
US-09-677-152-37

Query Match          100.0%; Score 19; DB 2; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.5e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ACGV 4
      ||||
Db      3 ACGV 6

RESULT 8
US-10-394-980-6
; Sequence 6, Application US/10394980
; Patent No. 6908740
; GENERAL INFORMATION:
; APPLICANT: Vandekerckhove, Joel
; APPLICANT: Gevaert, Kris
; TITLE OF INVENTION: METHODS AND APPARATUS FOR GEL-FREE QUALITATIVE AND
; TITLE OF INVENTION: QUANTITATIVE PROTEOME ANALYSIS, AND USES THEREFOR
; FILE REFERENCE: VAV-001
; CURRENT APPLICATION NUMBER: US/10/394,980
; CURRENT FILING DATE: 2003-03-21
; PRIOR APPLICATION NUMBER: PCT/EP02/03368
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: US60/278,171
; PRIOR FILING DATE: 2001-03-22
; PRIOR APPLICATION NUMBER: US60/318,749
; PRIOR FILING DATE: 2001-09-12
; PRIOR APPLICATION NUMBER: US60/323,999
; PRIOR FILING DATE: 2001-09-20
; NUMBER OF SEQ ID NOS: 473
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6
; LENGTH: 19
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; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MISC_FEATURE
; OTHER INFORMATION: part of AMBP_HUMAN (P02760) alphae-1-microglobulin)
US-10-394-980-6

Query Match          100.0%; Score 19; DB 2; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.9e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ACGV 4
      ||||
Db      3 ACGV 6

RESULT 9
US-09-936-588-8
; Sequence 8, Application US/09936588
; Patent No. 6858775
; GENERAL INFORMATION:
; APPLICANT: XU, Ming-Qun
; APPLICANT: EVANS, Thomas C.
; APPLICANT: PRADHAN, Sriharsha
; APPLICANT: COMB, Donald G.
; APPLICANT: PAULUS, Henry
; APPLICANT: SUN, Luo
; APPLICANT: CHEN, Lixin
; APPLICANT: GHOSH, Inca
; APPLICANT: NEW ENGLAND BIOLOGICS, INC.
; APPLICANT: BOSTON BIOMEDICAL RESEARCH INSTITUTE
; TITLE OF INVENTION: METHOD FOR GENERATING SPLIT, NON-TRANSFERABLE GENES
; TITLE OF INVENTION: THAT ARE ABLE TO EXPRESS AN ACTIVE PROTEIN PRODUCT
; FILE REFERENCE: NEB-163-PCT
; CURRENT APPLICATION NUMBER: US/09/936,588
; CURRENT FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/135,677
; PRIOR FILING DATE: 1999-05-24
; NUMBER OF SEQ ID NOS: 134
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 8
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Escherichia coli
US-09-936-588-8

Query Match          100.0%; Score 19; DB 2; Length 21;
Best Local Similarity 100.0%; Pred. No. 2.1e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ACGV 4
      ||||
Db      11 ACGV 14

RESULT 10
US-08-482-142-24
; Sequence 24, Application US/08482142
; Patent No. 5820862
; GENERAL INFORMATION:
; APPLICANT: Garman, Richard
; APPLICANT: Greenstein, Julia
; APPLICANT: Kuo, Wei-chang
; APPLICANT: Rogers, Bruce
; APPLICANT: Franzen, Henry
; APPLICANT: Chen, Xian
; APPLICANT: Evans, Sean
; APPLICANT: Shaked, Ze'ev
; TITLE OF INVENTION: T CELL EPITOPES OR THE MAJOR ALLERGENS
; TITLE OF INVENTION: FROM DERMATOPHAGOIDES (HOUSE DUST MITE)
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: IMMUNOLOGIC PHARMACEUTICAL CORPORATION
```

STREET: 610 LINCOLN STREET
CITY: WALTHAM
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII TEXT
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/482,142
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/445,307
FILING DATE: 07 June 1995
ATTORNEY/AGENT INFORMATION:
NAME: CRAIG, ANNE I.
REGISTRATION NUMBER: 32,976
REFERENCE/DOCKET NUMBER: 017.6US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 466-6000
TELEFAX: (617) 466-6040
INFORMATION FOR SEQ ID NO: 24:
SEQUENCE CHARACTERISTICS:
LENGTH: 22 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: N-terminal
US-08-482-142-24

Query Match 100.0%; Score 19; DB 1; Length 22;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
|||
Db 11 ACGV 14

RESULT 11
US-08-478-572-24
Sequence 24, Application US/08478572
Patent No. 5968526
GENERAL INFORMATION:
APPLICANT: Garman, Richard
APPLICANT: Greenstein, Julia
APPLICANT: Kuo, Mei-chang
APPLICANT: Rogers, Bruce
APPLICANT: Franzen, Henry
APPLICANT: Chen, Xian
APPLICANT: Evans, Sean
APPLICANT: Shaked, Ze'ev
TITLE OF INVENTION: T CELL EPITOPES OF THE MAJOR ALLERGENS
TITLE OF INVENTION: FROM DERMATOPHAGOIDES (HOUSE DUST MITE)
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESSES:
ADDRESSEE: IMMUNOLOGIC PHARMACEUTICAL CORPORATION
STREET: 610 LINCOLN STREET
CITY: WALTHAM
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII TEXT
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/478,572
FILING DATE: 07-June-1995

CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/445,307
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: CRAIG, ANNE I.
REGISTRATION NUMBER: 32,976
REFERENCE/DOCKET NUMBER: 017.6US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 466-6000
TELEFAX: (617) 466-6040
INFORMATION FOR SEQ ID NO: 24:
SEQUENCE CHARACTERISTICS:
LENGTH: 22 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: N-terminal
US-08-478-572-24

Query Match 100.0%; Score 19; DB 1; Length 22;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
|||
Db 11 ACGV 14

RESULT 12
US-08-484-296-24
Sequence 24, Application US/08484296
Patent No. 6268491
GENERAL INFORMATION:
APPLICANT: Garman, Richard
APPLICANT: Greenstein, Julia
APPLICANT: Kuo, Mei-chang
APPLICANT: Rogers, Bruce
APPLICANT: Franzen, Henry
APPLICANT: Chen, Xian
APPLICANT: Evans, Sean
APPLICANT: Shaked, Ze'ev
TITLE OF INVENTION: T CELL EPITOPES OF THE MAJOR ALLERGENS
TITLE OF INVENTION: FROM DERMATOPHAGOIDES (HOUSE DUST MITE)
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESSES:
ADDRESSEE: IMMUNOLOGIC PHARMACEUTICAL CORPORATION
STREET: 610 LINCOLN STREET
CITY: WALTHAM
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII TEXT
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/484,296
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/445,307
FILING DATE: 07 June 1995
ATTORNEY/AGENT INFORMATION:
NAME: CRAIG, ANNE I.
REGISTRATION NUMBER: 32,976
REFERENCE/DOCKET NUMBER: 017.6US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 466-6000
TELEFAX: (617) 466-6040
INFORMATION FOR SEQ ID NO: 24:
SEQUENCE CHARACTERISTICS:

LENGTH: 22 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: N-terminal
US-08-484-296-24

Query Match 100.0%; Score 19; DB 2; Length 22;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOCV 4
Db 11 AOCV 14

RESULT 13
PCT-US95-04481-15
Sequence 15, Application PC/TUS9504481
GENERAL INFORMATION:

APPLICANT:
TITLE OF INVENTION: Pharmaceutical Peptide Formulations For Treatment of Dust Mit
NUMBER OF SEQUENCES: 54
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30 (ERO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/04481
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/227,772
FILING DATE: April 14, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Vanstone, Darlene A.
REGISTRATION NUMBER: 35,279
REFERENCE/DOCKET NUMBER: 017.5 PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 466-6000
TELEFAX: (617) 466-6040
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 22 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
PCT-US95-04481-15

Query Match 100.0%; Score 19; DB 4; Length 22;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOCV 4
Db 11 AOCV 14

RESULT 14
US-08-482-142-40
Sequence 40, Application US/08482142
GENERAL INFORMATION:

APPLICANT: Garman, Richard
APPLICANT: Greenstein, Julia
APPLICANT: Kuo, Mei-chang
APPLICANT: Rogers, Bruce
APPLICANT: Franzen, Henry
APPLICANT: Chen, Xian
APPLICANT: Evans, Sean

APPLICANT: Shaked, Ze'ev
TITLE OF INVENTION: T CELL EPITOPES OF THE MAJOR ALLERGENS
TITLE OF INVENTION: FROM DERMATOPHAGOIDES (HOUSE DUST MITE)
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESS: IMMUNOLOGIC PHARMACEUTICAL CORPORATION
STREET: 610 LINCOLN STREET
CITY: WALTHAM
STATE: MA
COUNTRY: USA
ZIP: 02154

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII TEXT
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/482,142
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/445,307
FILING DATE: 07 June 1995
ATTORNEY/AGENT INFORMATION:
NAME: CRAIG, ANNE I.
REGISTRATION NUMBER: 32,976
REFERENCE/DOCKET NUMBER: 017.6US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 466-6000
TELEFAX: (617) 466-6040
INFORMATION FOR SEQ ID NO: 40:
SEQUENCE CHARACTERISTICS:
LENGTH: 23 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: N-terminal
US-08-482-142-40

Query Match 100.0%; Score 19; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 2.3e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOCV 4
Db 8 AOCV 11

RESULT 15
US-08-478-572-40
Sequence 40, Application US/08478572
Patent No. 5968526
GENERAL INFORMATION:

APPLICANT: Garman, Richard
APPLICANT: Greenstein, Julia
APPLICANT: Kuo, Mei-chang
APPLICANT: Rogers, Bruce
APPLICANT: Franzen, Henry
APPLICANT: Chen, Xian
APPLICANT: Evans, Sean
APPLICANT: Shaked, Ze'ev
TITLE OF INVENTION: T CELL EPITOPES OF THE MAJOR ALLERGENS
TITLE OF INVENTION: FROM DERMATOPHAGOIDES (HOUSE DUST MITE)
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESS: IMMUNOLOGIC PHARMACEUTICAL CORPORATION
STREET: 610 LINCOLN STREET
CITY: WALTHAM
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII TEXT
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/478,572
FILING DATE: 07-June-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/445,307
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: CRAIG, ANNE I.
REGISTRATION NUMBER: 32,976
REFERENCE/DOCKET NUMBER: 017.6US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 466-6000
TELEFAX: (617) 466-6040
INFORMATION FOR SEQ ID NO: 40:
SEQUENCE CHARACTERISTICS:
LENGTH: 23 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: N-terminal
US-08-478-572-40

Query Match 100.0%; Score 19; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 2.3e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AOV 4
Db 8 AOV 11

RESULT 16
US-08-484-296-40
Sequence 40, Application US/08484296
Patent No. 6268491
GENERAL INFORMATION:
APPLICANT: Garman, Richard
APPLICANT: Greenstein, Julia
APPLICANT: Kuo, Mei-chang
APPLICANT: Rogers, Bruce
APPLICANT: Franzen, Henry
APPLICANT: Chen, Xian
APPLICANT: Evans, Sean
APPLICANT: Shaked, Ze'ev
TITLE OF INVENTION: T CELL EPITOPES OF THE MAJOR ALLERGENS
FROM DERMATOPHAGOIDES (HOUSE DUST MITE)
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: IMMUNOLOGIC PHARMACEUTICAL CORPORATION
STREET: 610 LINCOLN STREET
CITY: WALTHAM
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII TEXT
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/484,296
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/445,307
FILING DATE: 07 June 1995
ATTORNEY/AGENT INFORMATION:
NAME: CRAIG, ANNE I.
REGISTRATION NUMBER: 32,976

REFERENCE/DOCKET NUMBER: 017.6US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 466-6000
TELEFAX: (617) 466-6040
INFORMATION FOR SEQ ID NO: 40:
SEQUENCE CHARACTERISTICS:
LENGTH: 23 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: N-terminal
US-08-484-296-40

Query Match 100.0%; Score 19; DB 2; Length 23;
Best Local Similarity 100.0%; Pred. No. 2.3e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AOV 4
Db 8 AOV 11

RESULT 17
US-08-933-1008-3
Sequence 3, Application US/089331008
Patent No. 6274704
GENERAL INFORMATION:
APPLICANT: FUKAI, FUMIO
APPLICANT: KATAYAMA, TAKASHI
TITLE OF INVENTION: BIOLOGICALLY ACTIVE PEPTIDE AND CANCER
METASTASIS INHIBITOR
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: PILLSBURY, MADISON & SUTRO
STREET: 1100 NEW YORK AVENUE, N.W.
CITY: WASHINGTON
STATE: D.C.
COUNTRY: USA
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/933,100B
FILING DATE: 18-SEP-1997
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: PERRY, GLENN
REGISTRATION NUMBER: 28458
REFERENCE/DOCKET NUMBER: 7898/242094
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-861-3000
TELEFAX: 202-822-0944
TELEX: 6714627 CUSH
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 23 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
OTHER INFORMATION: Sequence of a part (1669 - 1691) of Heparin binding site
US-08-933-1008-3

Query Match 100.0%; Score 19; DB 2; Length 23;
Best Local Similarity 100.0%; Pred. No. 2.3e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AOV 4

Db 15 AGCV 18

RESULT 18

US-08-141-324-22
; Sequence 22, Application US/08141324
; Patent No. 5475097
; GENERAL INFORMATION:
; APPLICANT: Travis, James
; APPLICANT: Potempa, Jan S.
; APPLICANT: Barr, Philip J.
; APPLICANT: Pavloff, Nadine
; APPLICANT: Pike, Robert N.
; TITLE OF INVENTION: Lysine-specific Porphyromonas gingivalis
; TITLE OF INVENTION: Protease
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Greenlee and Winner, P.C.
; STREET: 5370 Manhattan Circle, Suite 201
; CITY: Boulder
; STATE: CO
; COUNTRY: US
; ZIP: 80303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/141,324
; FILING DATE: 21-OCT-1993
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Feiber, Donna M.
; REGISTRATION NUMBER: 33,878
; REFERENCE/DOCKET NUMBER: 44-93
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 303-499-8080
; TELEFAX: 303-499-8089
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHEICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; US-08-141-324-22

Query Match

Best Local Similarity 100.0%; Score 19; DB 1; Length 24;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCV 4
Db 11 AGCV 14

RESULT 19

US-08-541-902-22
; Sequence 22, Application US/08541902
; Patent No. 5707620
; GENERAL INFORMATION:
; APPLICANT: Travis, James
; APPLICANT: Potempa, Jan S.
; APPLICANT: Barr, Philip J.
; APPLICANT: Pavloff, Nadine
; APPLICANT: Pike, Robert N.
; TITLE OF INVENTION: Lysine-specific Porphyromonas gingivalis
; TITLE OF INVENTION: Protease

NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Greenlee and Winner, P.C.
; STREET: 5370 Manhattan Circle, Suite 201
; CITY: Boulder
; STATE: CO
; COUNTRY: US
; ZIP: 80303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/541,902
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/141,324
; FILING DATE: 21-OCT-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Feiber, Donna M.
; REGISTRATION NUMBER: 33,878
; REFERENCE/DOCKET NUMBER: 44-93
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 303-499-8080
; TELEFAX: 303-499-8089
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHEICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; US-08-541-902-22

Query Match

Best Local Similarity 100.0%; Score 19; DB 1; Length 24;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCV 4
Db 11 AGCV 14

RESULT 20

US-08-482-142-38
; Sequence 38, Application US/08482142
; Patent No. 5820862
; GENERAL INFORMATION:
; APPLICANT: Garman, Richard
; APPLICANT: Greenstein, Julia
; APPLICANT: Kuo, Wei-chang
; APPLICANT: Rogers, Bruce
; APPLICANT: Franzen, Henry
; APPLICANT: Chen, Xian
; APPLICANT: Evans, Sean
; APPLICANT: Shaked, Ze'ev
; TITLE OF INVENTION: T CELL EPITOPES OF THE MAJOR ALLERGENS
; TITLE OF INVENTION: FROM DERMATOPHAGOIDES (HOUSE DUST MITE)
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: IMMUNOLOGIC PHARMACEUTICAL CORPORATION
; STREET: 610 LINCOLN STREET
; CITY: WALTHAM
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII TEXT
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/482.142
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/445.307
FILING DATE: 07 June 1995
ATTORNEY/AGENT INFORMATION:
NAME: CRAIG, ANNE I.
REGISTRATION NUMBER: 32.976
REFERENCE/DOCKET NUMBER: 017.6US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 466-6000
TELEFAX: (617) 466-6040
INFORMATION FOR SEQ ID NO: 38:
SEQUENCE CHARACTERISTICS:
LENGTH: 25 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: N-terminal
US-08-482-142-38

Query Match 100.0%; Score 19; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 2.5e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
DB 20 AOGV 23

RESULT 21
US-08-478-572-38
Sequence 38, Application US/08478572
Patent No. 5968526
GENERAL INFORMATION:
APPLICANT: Garman, Richard
APPLICANT: Greenstein, Julia
APPLICANT: Kuo, Mei-chang
APPLICANT: Rogers, Bruce
APPLICANT: Franzen, Henry
APPLICANT: Chen, Xian
APPLICANT: Evans, Sean
APPLICANT: Shaked, Ze'ev
TITLE OF INVENTION: T CELL EPITOPES OF THE MAJOR ALLERGENS
FROM DERMATOPHAGOIDES (HOUSE DUST MITE)
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: IMMUNOLOGIC PHARMACEUTICAL CORPORATION
STREET: 610 LINCOLN STREET
CITY: WALTHAM
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII TEXT
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/478.572
FILING DATE: 07-June-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/445.307
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: CRAIG, ANNE I.
REGISTRATION NUMBER: 32.976

REFERENCE/DOCKET NUMBER: 017.6US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 466-6000
TELEFAX: (617) 466-6040
INFORMATION FOR SEQ ID NO: 38:
SEQUENCE CHARACTERISTICS:
LENGTH: 25 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: N-terminal
US-08-478-572-38

Query Match 100.0%; Score 19; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 2.5e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
DB 20 AOGV 23

RESULT 22
US-08-484-296-38
Sequence 38, Application US/08484296
Patent No. 6268491
GENERAL INFORMATION:
APPLICANT: Garman, Richard
APPLICANT: Greenstein, Julia
APPLICANT: Kuo, Mei-chang
APPLICANT: Rogers, Bruce
APPLICANT: Franzen, Henry
APPLICANT: Chen, Xian
APPLICANT: Evans, Sean
APPLICANT: Shaked, Ze'ev
TITLE OF INVENTION: T CELL EPITOPES OF THE MAJOR ALLERGENS
FROM DERMATOPHAGOIDES (HOUSE DUST MITE)
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: IMMUNOLOGIC PHARMACEUTICAL CORPORATION
STREET: 610 LINCOLN STREET
CITY: WALTHAM
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII TEXT
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/484.296
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/445.307
FILING DATE: 07 June 1995
ATTORNEY/AGENT INFORMATION:
NAME: CRAIG, ANNE I.
REGISTRATION NUMBER: 32.976
REFERENCE/DOCKET NUMBER: 017.6US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 466-6000
TELEFAX: (617) 466-6040
INFORMATION FOR SEQ ID NO: 38:
SEQUENCE CHARACTERISTICS:
LENGTH: 25 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: N-terminal
US-08-484-296-38

Query Match 100.0%; Score 19; DB 2; Length 25;
Best Local Similarity 100.0%; Pred. No. 2.5e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCV 4
|||
Db 20 AGCV 23

RESULT 23
US-09-596-120-9
; Sequence 9, Application US/09596120
; Patent No. 6517838
; GENERAL INFORMATION:
; APPLICANT: Hook, Magnus A.
; APPLICANT: Brown, Eric L.
; TITLE OF INVENTION: Decotin Binding Proteins Essential Peptides and Methods of Use
; FILE REFERENCE: 12740.0210.NPUS00 (TRMK:210)
; CURRENT APPLICATION NUMBER: US/09/596.120
; CURRENT FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 9
; LENGTH: 25
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligopeptide
US-09-596-120-9

Query Match 100.0%; Score 19; DB 2; Length 25;
Best Local Similarity 100.0%; Pred. No. 2.5e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCV 4
|||
Db 10 AGCV 13

RESULT 24
US-07-879-685B-2
; Sequence 2, Application US/07879685B
; Patent No. 5296383
; GENERAL INFORMATION:
; APPLICANT: DAIKIN INDUSTRIES, LTD.
; TITLE OF INVENTION: A human centromere antigen
; TITLE OF INVENTION: polypeptide
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Umeda Center Building, 4-12
; STREET: Nakazaki-nishi, 2-chome
; CITY: Kita-ku
; STATE: Osaka
; COUNTRY: Japan
; ZIP: 530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/879.685B
; FILING DATE: 19920507
; CLASSIFICATION: 436
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 3-102517
; FILING DATE: 08-May-1991
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 26 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: peptide

; FRAGMENT TYPE: internal fragment
; ORIGINAL SOURCE:
; ORGANISM: human
US-07-879-685B-2

Query Match 100.0%; Score 19; DB 1; Length 26;
Best Local Similarity 100.0%; Pred. No. 2.6e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCV 4
|||
Db 11 AGCV 14

RESULT 25
US-08-821-119-6
; Sequence 6, Application US/08821119
; Patent No. 5821104
; GENERAL INFORMATION:
; APPLICANT: Holm, Kaj Andre
; APPLICANT: Rasmussen, Grethe
; APPLICANT: Halkier, Torben
; APPLICANT: Lembeck, Jan
; TITLE OF INVENTION: tripeptidyl Aminoamidase
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 5821104o No. 5821104disk of No. 5821104th America, Inc.
; STREET: 405 Lexington Avenue
; CITY: New York
; STATE: NY
; COUNTRY: USA
; ZIP: 10174
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/821.119
; FILING DATE: 19-MAR-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Lambiris, Elias J
; REGISTRATION NUMBER: 33,728
; REFERENCE/DOCKET NUMBER: 4107.204-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-867-0123
; TELEFAX: 212-878-9655
; TELEX:
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 27 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: No. 5821104e
US-08-821-119-6

Query Match 100.0%; Score 19; DB 1; Length 27;
Best Local Similarity 100.0%; Pred. No. 2.7e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCV 4
|||
Db 17 AGCV 20

RESULT 26
US-08-900-660A-6
; Sequence 6, Application US/08900660A
; Patent No. 5876947
; GENERAL INFORMATION:
; APPLICANT: Kudryk, Bohdan J

APPLICANT: Bini, Alessandra
APPLICANT: Zhang, Jian-Zhong
TITLE OF INVENTION: MONOSPECIFIC ANTIBODY REACTIVE
TITLE OF INVENTION: WITH FIBRINOGEN AND
TITLE OF INVENTION: FIBRINOPEPTIDE B
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESS: Hoffmann & Baron, LLP
STREET: 350 Jericho Turnpike
CITY: Jericho
STATE: New York
COUNTRY: USA
ZIP: 11753
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/900,660A
FILING DATE: 25-JUL-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Baron, Ronald J
REGISTRATION NUMBER: 29281
REFERENCE/DOCKET NUMBER: 454-15
TELECOMMUNICATION INFORMATION:
TELEPHONE: 516 822 3550
TELEFAX: 516 822 3582
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 27 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-900-660A-6

Query Match 100.0%; Score 19; DB 1; Length 27;
Best Local Similarity 100.0%; Pred. No. 2,7e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AOGV 4
Db 21 AOGV 24

RESULT 27
US-08-482-142-39
Sequence 39, Application US/08482142
Patent No. 5620862
GENERAL INFORMATION:
APPLICANT: Garman, Richard
APPLICANT: Greenstein, Julia
APPLICANT: Kuo, Mei-chang
APPLICANT: Rogers, Bruce
APPLICANT: Franzen, Henry
APPLICANT: Evans, Sean
APPLICANT: Shaked, Ze'ev
TITLE OF INVENTION: T CELL EPITOPES OF THE MAJOR ALLERGENS
TITLE OF INVENTION: FROM DERMATOPHAGOIDES (HOUSE DUST MITE)
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: IMMUNOLOGIC PHARMACEUTICAL CORPORATION
STREET: 610 LINCOLN STREET
CITY: WALTHAM
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: ASCII TEXT
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/482,142
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/445,307
FILING DATE: 07 June 1995
ATTORNEY/AGENT INFORMATION:
NAME: CRAIG, ANNE I.
REGISTRATION NUMBER: 32,976
REFERENCE/DOCKET NUMBER: 017.6US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 466-6000
TELEFAX: (617) 466-6040
INFORMATION FOR SEQ ID NO: 39:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: N-terminal
US-08-482-142-39

Query Match 100.0%; Score 19; DB 1; Length 29;
Best Local Similarity 100.0%; Pred. No. 2,9e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AOGV 4
Db 8 AOGV 11

RESULT 28
US-08-478-572-39
Sequence 39, Application US/08478572
Patent No. 5968526
GENERAL INFORMATION:
APPLICANT: Garman, Richard
APPLICANT: Greenstein, Julia
APPLICANT: Kuo, Mei-chang
APPLICANT: Rogers, Bruce
APPLICANT: Franzen, Henry
APPLICANT: Evans, Sean
APPLICANT: Shaked, Ze'ev
TITLE OF INVENTION: T CELL EPITOPES OF THE MAJOR ALLERGENS
TITLE OF INVENTION: FROM DERMATOPHAGOIDES (HOUSE DUST MITE)
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: IMMUNOLOGIC PHARMACEUTICAL CORPORATION
STREET: 610 LINCOLN STREET
CITY: WALTHAM
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII TEXT
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/478,572
FILING DATE: 07-June-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/445,307
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: CRAIG, ANNE I.
REGISTRATION NUMBER: 32,976
REFERENCE/DOCKET NUMBER: 017.6US
TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 466-6000
TELEFAX: (617) 466-6040
INFORMATION FOR SEQ ID NO: 39:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: N-terminal
US-08-478-572-39

Query Match 100.0%; Score 19; DB 1; Length 29;
Best Local Similarity 100.0%; Pred. No. 2.9e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCV 4
|||
DB 8 AGCV 11

RESULT 29
US-08-484-296-39
Sequence 39, Application US/08484296
Patent No. 6268491

GENERAL INFORMATION:

APPLICANT: Garman, Richard
APPLICANT: Greenstein, Julia

APPLICANT: Kuo, Mei-chang
APPLICANT: Rogers, Bruce

APPLICANT: Franzen, Henry
APPLICANT: Chen, Xian

APPLICANT: Evans, Sean
APPLICANT: Shaked, Zeev

TITLE OF INVENTION: 1 CELL EPITOPES OF THE MAJOR ALLERGENS
TITLE OF INVENTION: FROM DERMATOPHAGOIDES (HOUSE DUST MITE)

NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESSES:

ADDRESSEE: IMMUNOLOGIC PHARMACEUTICAL CORPORATION
STREET: 610 LINCOLN STREET

CITY: WALTHAM
STATE: MA

COUNTRY: USA
ZIP: 02154

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: ASCII TEXT
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/484,296
FILING DATE:

CLASSIFICATION: 435
PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/445,307
FILING DATE: 07 June 1995

ATTORNEY/AGENT INFORMATION:
NAME: CRAIG, ANNE I.

REGISTRATION NUMBER: 32,976
REFERENCE/DOCKET NUMBER: 017.6US

TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 466-6000

TELEFAX: (617) 466-6040
INFORMATION FOR SEQ ID NO: 39:

SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids

TYPE: amino acid
TOPOLOGY: linear

MOLECULE TYPE: peptide
FRAGMENT TYPE: N-terminal

US-08-484-296-39

Query Match 100.0%; Score 19; DB 2; Length 29;
Best Local Similarity 100.0%; Pred. No. 2.9e+02;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AGCV 4
|||
DB 8 AGCV 11

RESULT 30
US-07-700-526-7

Sequence 7, Application US/07700526
Patent No. 516133

GENERAL INFORMATION:
APPLICANT: Houston, L. L.

APPLICANT: Liu, David Y.
APPLICANT: Kaymakalan, Zehra

TITLE OF INVENTION: Method for Inhibiting Adhesion of White
TITLE OF INVENTION: Blood Cells to Endothelial Cells

NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESSES:

ADDRESSEE: Cetus Corporation
STREET: 1400 Fifty-Third Street

CITY: Emeryville
STATE: CA

COUNTRY: USA
ZIP: 94608

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/07/700,526
FILING DATE: 19910816

CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:

NAME: McGarrigle Jr., Philip L.
REGISTRATION NUMBER: 31,395

REFERENCE/DOCKET NUMBER: 2600.1
TELECOMMUNICATION INFORMATION:

TELEPHONE: (415) 420-3217
TELEFAX: (415) 658-5239

INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:

LENGTH: 34 amino acids
TYPE: AMINO ACID

STRANDNESS: single
TOPOLOGY: linear

MOLECULE TYPE: protein
US-07-700-526-7

Query Match 100.0%; Score 19; DB 1; Length 34;

Best Local Similarity 100.0%; Pred. No. 3.4e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCV 4
|||
DB 18 AGCV 21

Search completed: February 21, 2006, 08:57:28
Job time : 34 secs

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioacceleration Ltd.

OM protein - protein search, using sw model

Run on: February 21, 2006, 08:56:53 ; Search time 133 Seconds
(without alignments)
13.214 Million cell updates/sec

Title: US-10-821-256-2

Perfect score: 19

Sequence: 1 AQCIV 4

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2443163 seqs, 439378781 residues

Total number of hits satisfying chosen parameters: 6981

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 100%

Maximum Match 100%

Listing first 500 summaries

Database :

1: Geneseqp21:*
2: geneseqp19808:*
3: geneseqp19908:*
4: geneseqp20008:*
5: geneseqp20018:*
6: geneseqp20028:*
7: geneseqp20038:*
8: geneseqp20048:*
9: geneseqp20058:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	ID	Description
1	19	100.0	4 7 ADC97878	ADC97878 Signalin
2	19	100.0	4 7 ADC97891	ADC97891 Signalin
3	19	100.0	4 7 ADC98118	ADC98118 Signalin
4	19	100.0	4 7 ADC97855	ADC97855 Signalin
5	19	100.0	4 7 ADC98185	ADC98185 Signalin
6	19	100.0	4 7 ADC98145	ADC98145 Signalin
7	19	100.0	4 7 ADC97811	ADC97811 Signalin
8	19	100.0	4 7 ADN01224	ADN01224 Human nuc
9	19	100.0	4 8 ADG86532	ADG86532 NF-kappaB
10	19	100.0	4 8 ADG86590	ADG86590 NF-kappaB
11	19	100.0	4 8 ADH29151	ADH29151 Necrosis
12	19	100.0	4 8 ADG73593	ADG73593 NF-kappaB
13	19	100.0	4 8 ADG86561	ADG86561 NF-kappaB
14	19	100.0	4 8 ADI20991	ADI20991 Human nuc
15	19	100.0	4 8 ADI16437	ADI16437 NF-kappaB
16	19	100.0	4 8 ADK42374	ADK42374 Antibacte
17	19	100.0	4 8 ADM48491	ADM48491 NF-kappaB
18	19	100.0	4 8 ADO15345	ADO15345 Nuclear f
19	19	100.0	4 8 ADT08600	ADT08600 Human cho
20	19	100.0	4 8 ADT08628	ADT08628 Human cho
21	19	100.0	4 8 ADT08656	ADT08656 Human cho
22	19	100.0	4 8 ADT79351	ADT79351 Nuclear f
23	19	100.0	4 8 ADT49387	ADT49387 Human cho
24	19	100.0	4 8 ADU46871	ADU46871 Gene regu

25	19	100.0	4 9 ADY03875	ADY03875 Peptide d
26	19	100.0	4 9 ADY82494	ADY82494 Porcine h
27	19	100.0	4 9 AEA27819	AEA27819 Gene-regu
28	19	100.0	9 6 ABU11098	ABU11098 House dus
29	19	100.0	9 9 ADZ50681	ADZ50681 Y. peatis
30	19	100.0	10 4 AAG85717	AAG85717 Saccharom
31	19	100.0	10 8 ADP94302	ADP94302 Human cel
32	19	100.0	12 4 AAB35370	AAB35370 Alpha3bet
33	19	100.0	13 4 AAB00107	AAB00107 T. lanugi
34	19	100.0	14 2 AAR49859	AAR49859 Sequence
35	19	100.0	14 4 AAM98513	AAM98513 Human pep
36	19	100.0	15 2 AAM50068	AAM50068 Human cho
37	19	100.0	15 2 AAM47508	AAM47508 Human bet
38	19	100.0	15 2 AAM50103	AAM50103 Human cho
39	19	100.0	15 5 ABB04474	ABB04474 Human end
40	19	100.0	15 8 ADH52629	ADH52629 Human cho
41	19	100.0	15 8 ADH52592	ADH52592 Human cho
42	19	100.0	15 8 ADK39780	ADK39780 Human cho
43	19	100.0	15 8 ADT90972	ADT90972 Human bet
44	19	100.0	16 2 AAR51746	AAR51746 Der p I d
45	19	100.0	16 8 ADU87133	ADU87133 Peptide d
46	19	100.0	18 5 AAU70963	AAU70963 M. tuberc
47	19	100.0	18 5 AAU70974	AAU70974 M. tuberc
48	19	100.0	18 9 ADV55657	ADV55657 G protein
49	19	100.0	18 9 ADV54661	ADV54661 G protein
50	19	100.0	18 9 ADY64079	ADY64079 Human MCS
51	19	100.0	18 9 ADY64078	ADY64078 Human MCS
52	19	100.0	19 2 AAM92548	AAM92548 Beta-acti
53	19	100.0	19 6 ABB74723	ABB74723 Proteome
54	19	100.0	19 7 ADP14799	ADP14799 SLE/sjogr
55	19	100.0	19 9 ADY55698	ADY55698 G protein
56	19	100.0	19 9 ADV54702	ADV54702 G protein
57	19	100.0	19 9 ADX6536	ADX6536 Cardiovas
58	19	100.0	20 7 ADC99563	ADC99563 Cancer-re
59	19	100.0	20 8 ADK15603	ADK15603 Human G25
60	19	100.0	20 8 ADT36531	ADT36531 RCC-absgoc
61	19	100.0	21 4 AAB57305	AAB57305 Antigenic
62	19	100.0	22 2 AAR63398	AAR63398 DPL-16(17
63	19	100.0	22 2 AAR77133	AAR77133 Dermatoch
64	19	100.0	22 2 AAW71926	AAW71926 Dermatoch
65	19	100.0	22 2 AAW50375	AAW50375 Dermatoch
66	19	100.0	22 4 AAU18978	AAU18978 T-cell ep
67	19	100.0	23 2 AAR51762	AAR51762 Der p I d
68	19	100.0	23 2 AAW37822	AAW37822 Peptide d
69	19	100.0	23 2 AAW71937	AAW71937 Dermatoch
70	19	100.0	23 2 AAY50391	AAY50391 Dermatoch
71	19	100.0	23 2 AAY36513	AAY36513 Fragment
72	19	100.0	23 4 AAU18994	AAU18994 T-cell ep
73	19	100.0	23 6 ADA12069	ADA12069 Human nov
74	19	100.0	24 5 ABP46165	ABP46165 Human Bly
75	19	100.0	24 7 ADG96992	ADG96992 scFV VHCD
76	19	100.0	24 7 ADG97785	ADG97785 scFV VHCD
77	19	100.0	25 2 AAR36412	AAR36412 DPL-27.1(
78	19	100.0	25 2 AAR51760	AAR51760 Der p I d
79	19	100.0	25 2 AAW71935	AAW71935 Dermatoch
80	19	100.0	25 2 AAY50389	AAY50389 Dermatoch
81	19	100.0	25 4 AAM21152	AAM21152 Peptide #
82	19	100.0	25 4 AAU18992	AAU18992 T-cell ep
83	19	100.0	25 4 ABB43470	ABB43470 Peptide #
84	19	100.0	25 4 AAM77220	AAM77220 Human bon
85	19	100.0	25 4 AAM64402	AAM64402 Human bra
86	19	100.0	25 4 ABB58847	ABB58847 Human liv
87	19	100.0	25 7 ADC26857	ADC26857 B. burgdo
88	19	100.0	25 7 ADO60121	ADO60121 Thrombopo
89	19	100.0	25 8 ABO60121	ABO60121 Human gen
90	19	100.0	25 9 ADV54693	ADV54693 G protein
91	19	100.0	25 9 ADV55689	ADV55689 G protein
92	19	100.0	26 2 AAR30640	AAR30640 Epitope o
93	19	100.0	27 2 AAR95624	AAR95624 Tripepid

98	19	100.0	27	2	AAW97423	AAW97423	Peptide o	171	19	100.0	65	3	AAQ02408	AAQ02408	Human sec
99	19	100.0	27	9	ADXS6530	ADXS6530	Cardiovas	172	19	100.0	65	3	AAQ07706	AAQ07706	Arabidops
100	19	100.0	29	2	AAK36413	AAK36413	DPI-28.1(173	19	100.0	65	3	AAQ26813	AAQ26813	Zea mays
101	19	100.0	29	2	AAK51761	AAK51761	Der p I d	174	19	100.0	65	7	ABO66725	ABO66725	Klebsiell
102	19	100.0	29	2	AAW71936	AAW71936	Der p I d	175	19	100.0	66	3	AAQ07705	AAQ07705	Arabidops
103	19	100.0	29	2	AAW50390	AAW50390	Dermatoph	176	19	100.0	66	4	AAQ82556	AAQ82556	Human imm
104	19	100.0	29	4	AAU18993	AAU18993	T-cell ep	177	19	100.0	66	4	AAU53135	AAU53135	Protiomb
105	19	100.0	29	7	ADJ35439	ADJ35439	Streptoco	178	19	100.0	66	6	ABM49654	ABM49654	Protiomb
106	19	100.0	30	2	AAW00643	AAW00643	Human DEC	179	19	100.0	67	4	ABM71058	ABM71058	Drosophi1
107	19	100.0	30	8	ADFA5511	ADFA5511	Human NTD	180	19	100.0	67	8	ADU04369	ADU04369	MHV prote
108	19	100.0	30	9	ADVS6620	ADVS6620	Human DEC	181	19	100.0	69	3	AAQ26016	AAQ26016	Zea mays
109	19	100.0	33	3	AAK27936	AAK27936	Human sec	182	19	100.0	69	4	AAE01158	AAE01158	Novel hum
110	19	100.0	35	9	ADY97195	ADY97195	Herpes b1	183	19	100.0	69	5	AAU76429	AAU76429	Novel hum
111	19	100.0	36	9	ADXS6537	ADXS6537	Cardiovas	184	19	100.0	69	6	ADA21106	ADA21106	Human sec
112	19	100.0	37	2	AAK25974	AAK25974	Peptide m	185	19	100.0	69	7	ADA67726	ADA67726	Novel hum
113	19	100.0	37	2	AAK21614	AAK21614	Antimicro	186	19	100.0	71	3	AAK65387	AAK65387	Human 5'
114	19	100.0	37	3	AAK28803	AAK28803	SYNthetic	187	19	100.0	71	4	AAK63498	AAK63498	Human gas
115	19	100.0	37	7	ADC73331	ADC73331	Bovine an	188	19	100.0	71	8	ADU72951	ADU72951	Non-Bigna
116	19	100.0	38	8	ABO59877	ABO59877	Human gen	189	19	100.0	71	9	ADZ73942	ADZ73942	Human inc
117	19	100.0	40	9	ADZ97828	ADZ97828	Human cor	190	19	100.0	72	2	AAK58812	AAK58812	E. coli m
118	19	100.0	41	6	ABU17305	ABU17305	Protein e	191	19	100.0	72	2	AAW71459	AAW71459	Protein e
119	19	100.0	41	6	ABU94393	ABU94393	Human AMD	192	19	100.0	72	4	AAU07749	AAU07749	House dus
120	19	100.0	45	4	AAK24224	AAK24224	Human EST	193	19	100.0	72	4	AAK87649	AAK87649	Human imm
121	19	100.0	45	5	ABK90716	ABK90716	Chlamydia	194	19	100.0	72	4	AAU43630	AAU43630	Human imm
122	19	100.0	49	2	AAK69856	AAK69856	Fibronect	195	19	100.0	72	6	ABU09526	ABU09526	E. coli m
123	19	100.0	49	4	ABK09222	ABK09222	Mouse put	196	19	100.0	72	6	ABK40149	ABK40149	Protiomb
124	19	100.0	49	8	ADN11831	ADN11831	Fibronect	197	19	100.0	72	9	AEA32550	AEA32550	marc prot
125	19	100.0	49	8	ABO54048	ABO54048	Human gen	198	19	100.0	74	5	ABP04492	ABP04492	Human ORF
126	19	100.0	51	5	AAE18004	AAE18004	Human ion	199	19	100.0	74	5	ABP32468	ABP32468	Human ORF
127	19	100.0	51	8	ADN48261	ADN48261	Thermococ	200	19	100.0	75	5	ABP64192	ABP64192	Human ORF
128	19	100.0	52	4	AAK66353	AAK66353	Human imm	201	19	100.0	76	2	AAW72051	AAW72051	HSV-2 bcr
129	19	100.0	53	3	AAK58486	AAK58486	Lung canc	202	19	100.0	76	8	ABO65654	ABO65654	Human gen
130	19	100.0	53	5	ABP00538	ABP00538	Human ORF	203	19	100.0	77	8	ADL05542	ADL05542	M. catarr
131	19	100.0	54	5	AAE24593	AAE24593	Fish B93	204	19	100.0	78	4	AAU59277	AAU59277	Protiomb
132	19	100.0	55	4	ABK03527	ABK03527	Human mus	205	19	100.0	78	4	ABG26469	ABG26469	Novel hum
133	19	100.0	55	6	ABU12821	ABU12821	Novel hum	206	19	100.0	78	6	ABM57596	ABM57596	Protiomb
134	19	100.0	56	2	ADJ28847	ADJ28847	Human mus	207	19	100.0	79	5	ABP01669	ABP01669	Human ORF
135	19	100.0	56	2	AAK41885	AAK41885	Granulin	208	19	100.0	80	3	AAI19634	AAI19634	Arabidops
136	19	100.0	56	3	AAK50390	AAK50390	Human unc	209	19	100.0	80	8	ADH39815	ADH39815	Fara amin
137	19	100.0	56	4	ABK40247	ABK40247	Human pep	210	19	100.0	81	5	ABP10494	ABP10494	Human ORF
138	19	100.0	56	4	AAK33926	AAK33926	Peptide #	211	19	100.0	82	4	AAU52713	AAU52713	Protiomb
139	19	100.0	56	4	AAW73737	AAW73737	Human bon	212	19	100.0	82	6	ABM49232	ABM49232	Protiomb
140	19	100.0	56	4	ABK61034	ABK61034	Human bra	213	19	100.0	83	3	AAK02108	AAK02108	Human sec
141	19	100.0	56	5	ABG55482	ABG55482	Human liv	214	19	100.0	83	4	AAK87125	AAK87125	Human imm
142	19	100.0	56	5	ABG43619	ABG43619	Human pep	215	19	100.0	84	3	AAK34308	AAK34308	Arabidops
143	19	100.0	56	5	ABK42752	ABK42752	Human ova	216	19	100.0	84	4	ABK65061	ABK65061	Drosophi1
144	19	100.0	56	8	ADL27363	ADL27363	Amino aci	217	19	100.0	84	4	AAU61282	AAU61282	Protiomb
145	19	100.0	58	5	ABP07528	ABP07528	Human ORF	218	19	100.0	84	4	ABG05322	ABG05322	Novel hum
146	19	100.0	58	8	ABO59983	ABO59983	Human gen	219	19	100.0	84	4	ABK89210	ABK89210	Human sec
147	19	100.0	58	9	AEA79702	AEA79702	Cellulomo	220	19	100.0	84	6	ABM57801	ABM57801	Protiomb
148	19	100.0	58	9	AEA48196	AEA48196	Part of t	221	19	100.0	84	6	ABP76020	ABP76020	Human GEN
149	19	100.0	59	3	AAK58882	AAK58882	Breast an	222	19	100.0	84	6	ABP76176	ABP76176	Human GEN
150	19	100.0	59	4	AAU55984	AAU55984	Protiomb	223	19	100.0	85	3	AAK27024	AAK27024	Zea mays
151	19	100.0	59	5	ABP00743	ABP00743	Human ORF	224	19	100.0	85	3	AAK32676	AAK32676	Zea mays
152	19	100.0	59	6	ABK04473	ABK04473	Human end	225	19	100.0	85	3	AAU25324	AAU25324	Zea mays
153	19	100.0	59	6	ABM52503	ABM52503	Protiomb	226	19	100.0	85	4	AAU52346	AAU52346	Protiomb
154	19	100.0	59	8	ABO54645	ABO54645	Human gen	227	19	100.0	85	5	ABP62928	ABP62928	Human pol
155	19	100.0	60	4	AAU48065	AAU48065	Protiomb	228	19	100.0	85	6	ABM48865	ABM48865	Human pol
156	19	100.0	60	5	ABP32165	ABP32165	Human ORF	229	19	100.0	85	6	ADQ75906	ADQ75906	Lysine de
157	19	100.0	60	6	ABM44584	ABM44584	Protiomb	230	19	100.0	85	8	ADQ75905	ADQ75905	Lysine de
158	19	100.0	60	7	ABO78543	ABO78543	Pseudomon	231	19	100.0	85	8	ADJ12627	ADJ12627	Plant ful
159	19	100.0	61	4	AAU61564	AAU61564	Protiomb	232	19	100.0	85	9	AAK94141	AAK94141	M. xanthu
160	19	100.0	61	5	ABP04708	ABP04708	Human ORF	233	19	100.0	86	4	AAU47746	AAU47746	Protiomb
161	19	100.0	61	6	ABM58083	ABM58083	Protiomb	234	19	100.0	86	5	ABK78149	ABK78149	Amino aci
162	19	100.0	62	4	AAU64327	AAU64327	Protiomb	235	19	100.0	86	5	ABK32375	ABK32375	Human ORF
163	19	100.0	62	6	ABM60846	ABM60846	Protiomb	236	19	100.0	86	6	ABM44265	ABM44265	Protiomb
164	19	100.0	62	7	ABO62014	ABO62014	Klebsiell	237	19	100.0	86	8	ADR87224	ADR87224	Dust mite
165	19	100.0	62	8	ADY23472	ADY23472	Plant ful	238	19	100.0	87	4	AAU62248	AAU62248	Protiomb
166	19	100.0	63	3	AAK26814	AAK26814	Zea mays	239	19	100.0	87	6	ABM58767	ABM58767	Protiomb
167	19	100.0	63	4	AAK83149	AAK83149	Human imm	240	19	100.0	88	4	AAU54801	AAU54801	Protiomb
168	19	100.0	63	4	ABG26472	ABG26472	Novel hum	241	19	100.0	88	4	ABU60929	ABU60929	Lung spec
169	19	100.0	63	8	ABO58146	ABO58146	Human gen	242	19	100.0	88	6	ABM51320	ABM51320	Protiomb
170	19	100.0	64	5	ABP29155	ABP29155	Streptoco	243	19	100.0	89	2	AAK74147	AAK74147	Human pro

244	19	100.0	89	3	AAV59139	AAV59139	Mouse	ser	317	19	100.0	109	6	ABM41131	ABM41131	Proionib
245	19	100.0	89	8	ADP56448	ADP56448	Human	PRO	318	19	100.0	110	8	ADR08805	ADR08805	Human pro
246	19	100.0	91	4	AAU14672	AAU14672	Novel	bon	319	19	100.0	112	4	AAAG3219	AAAG3219	Human imm
247	19	100.0	91	4	ABG04651	ABG04651	Novel	hum	320	19	100.0	112	7	ADC32931	ADC32931	Human nov
248	19	100.0	91	5	ABP09720	ABP09720	Human	ORF	321	19	100.0	113	4	AAU61907	AAU61907	Proionib
249	19	100.0	91	5	ABP11499	ABP11499	Human	ORF	322	19	100.0	113	5	ABU05357	ABU05357	M. tuberc
250	19	100.0	92	6	ABP79711	ABP79711	N. gonorr		323	19	100.0	113	6	ABMS8426	ABMS8426	Proionib
251	19	100.0	92	7	ADCC01121	ADCC01121	Enteroha		324	19	100.0	114	4	ABG07701	ABG07701	Novel hum
252	19	100.0	92	7	ADP49007	ADP49007	Filtronect		325	19	100.0	114	8	ADQ65348	ADQ65348	Novel hum
253	19	100.0	92	9	ADV51055	ADV51055	Human car		326	19	100.0	115	4	ABE01694	ABE01694	Human gen
254	19	100.0	92	9	ADV51133	ADV51133	Human car		327	19	100.0	115	5	ABG63962	ABG63962	Human alb
255	19	100.0	92	9	ADW63881	ADW63881	Human fib		328	19	100.0	115	6	ADA57488	ADA57488	Human sec
256	19	100.0	92	9	ADY37467	ADY37467	Filtronect		329	19	100.0	115	6	ADA41366	ADA41366	Human sec
257	19	100.0	93	4	AAE017704	AAE017704	Arabidops		330	19	100.0	115	7	ABR48083	ABR48083	Human sec
258	19	100.0	93	4	AAE017744	AAE017744	Human gen		331	19	100.0	115	7	ADC74511	ADC74511	Human sec
259	19	100.0	93	4	AAU41229	AAU41229	Proionib		332	19	100.0	115	8	ADL77227	ADL77227	Albumin f
260	19	100.0	93	5	ABP02475	ABP02475	Human ORF		333	19	100.0	116	2	AAW75888	AAW75888	Peptide 1
261	19	100.0	93	6	ABM37748	ABM37748	Proionib		334	19	100.0	116	3	AAV78867	AAV78867	Streptomy
262	19	100.0	93	7	ADC42863	ADC42863	REMAP pro		335	19	100.0	116	3	AAAG26812	AAAG26812	Zea may
263	19	100.0	93	7	ADP59056	ADP59056	Human pol		336	19	100.0	116	6	ABP77495	ABP77495	N. gonorr
264	19	100.0	93	8	ADS98115	ADS98115	Protein f		337	19	100.0	116	7	ADM05847	ADM05847	Human pro
265	19	100.0	93	8	ADS98807	ADS98807	Protein f		338	19	100.0	117	9	ADX40189	ADX40189	HIV Rev p
266	19	100.0	94	3	AAAG34307	AAAG34307	Arabidops		339	19	100.0	117	3	AAAB40639	AAAB40639	Human ORF
267	19	100.0	95	3	AAAG3252	AAAG3252	Zea may		340	19	100.0	118	3	AAAG5453	AAAG5453	Arabidops
268	19	100.0	95	4	AAAG6608	AAAG6608	Human imm		341	19	100.0	118	3	AAAG59261	AAAG59261	Arabidops
269	19	100.0	95	6	ABM45817	ABM45817	Proionib		342	19	100.0	118	7	ADC00756	ADC00756	Enteroha
270	19	100.0	95	6	ABM45817	ABM45817	Proionib		343	19	100.0	118	9	ABM97506	ABM97506	M. xanthu
271	19	100.0	96	6	ABM65132	ABM65132	Proionib		344	19	100.0	119	9	ABE842205	ABE842205	L. pneumo
272	19	100.0	97	5	ABP07548	ABP07548	Human ORF		345	19	100.0	120	3	AAAG33216	AAAG33216	Pilus rad
273	19	100.0	97	6	ABD07542	ABD07542	Allolococ		346	19	100.0	120	3	AAAG36014	AAAG36014	Zea may
274	19	100.0	98	4	ABM80621	ABM80621	Envirohme		347	19	100.0	120	4	AAU48433	AAU48433	Proionib
275	19	100.0	98	9	ABM90893	ABM90893	M. xanthu		348	19	100.0	120	5	ABP53947	ABP53947	Human ORF
276	19	100.0	99	3	AAAB2065	AAAB2065	Human ORF		349	19	100.0	120	6	ABM44952	ABM44952	Proionib
277	19	100.0	99	3	AAAG34306	AAAG34306	Arabidops		350	19	100.0	121	2	AAV72822	AAV72822	Human sec
278	19	100.0	99	8	ADR96365	ADR96365	Novel S.		351	19	100.0	121	3	AAAB40960	AAAB40960	Human ORF
279	19	100.0	99	9	AEA60435	AEA60435	Streptococ		352	19	100.0	121	5	ABP06047	ABP06047	Human ORF
280	19	100.0	100	3	AAV58682	AAV58682	Wheat N-a		353	19	100.0	121	6	ABO14316	ABO14316	Novel hum
281	19	100.0	100	5	ABU05405	ABU05405	M. tuberc		354	19	100.0	121	8	ADG78724	ADG78724	Human sec
282	19	100.0	101	4	AAU57656	AAU57656	Proionib		355	19	100.0	121	8	ADN61014	ADN61014	Human sec
283	19	100.0	101	4	ABG23938	ABG23938	Novel hum		356	19	100.0	121	9	ABE837743	ABE837743	L. pneumo
284	19	100.0	101	4	ABG02006	ABG02006	Novel hum		357	19	100.0	121	9	ABE841053	ABE841053	L. pneumo
285	19	100.0	101	5	ABP02607	ABP02607	Human ORF		358	19	100.0	122	4	AAO03181	AAO03181	Human pol
286	19	100.0	101	6	ABM54175	ABM54175	Human ORF		359	19	100.0	122	4	AAU28136	AAU28136	Novel hum
287	19	100.0	101	6	ABM54175	ABM54175	Proionib		360	19	100.0	122	7	ADU70355	ADU70355	Human hea
288	19	100.0	102	2	AAW24566	AAW24566	Serine pr		361	19	100.0	122	8	ADX68079	ADX68079	Plant ful
289	19	100.0	102	3	AAAB25380	AAAB25380	Pilus rad		362	19	100.0	123	4	AAU46796	AAU46796	Human sec
290	19	100.0	102	5	ABU05650	ABU05650	M. tuberc		363	19	100.0	123	4	AAU46796	AAU46796	Proionib
291	19	100.0	102	5	AAU70953	AAU70953	M. tuberc		364	19	100.0	123	6	ABM43315	ABM43315	Proionib
292	19	100.0	102	9	ABE26458	ABE26458	M. tuberc		365	19	100.0	124	5	ABP28228	ABP28228	Streptococ
293	19	100.0	103	5	AAAG2145	AAAG2145	Human ORF		366	19	100.0	124	5	ABP28228	ABP28228	Streptococ
294	19	100.0	104	4	AAAG72373	AAAG72373	Human ORF		367	19	100.0	124	7	ADP60375	ADP60375	Human con
295	19	100.0	104	4	AAAM06840	AAAM06840	Human foe		368	19	100.0	124	8	ADV81351	ADV81351	Streptococ
296	19	100.0	105	3	AAAB41360	AAAB41360	Human ORF		369	19	100.0	124	8	ADV79154	ADV79154	Streptococ
297	19	100.0	105	4	AAU64044	AAU64044	Proionib		370	19	100.0	125	3	AAV74516	AAV74516	Neisseria
298	19	100.0	105	6	ABM60563	ABM60563	Proionib		371	19	100.0	125	3	AAV74516	AAV74516	Neisseria
299	19	100.0	105	8	ADP09942	ADP09942	Human pro		372	19	100.0	125	3	AAV74518	AAV74518	Neisseria
300	19	100.0	106	4	AAU23565	AAU23565	Novel hum		373	19	100.0	125	3	AAAG25886	AAAG25886	Zea may
301	19	100.0	106	5	ABP01625	ABP01625	Human ORF		374	19	100.0	126	5	ADK36711	ADK36711	Novel hum
302	19	100.0	106	5	ABP01625	ABP01625	Human ORF		375	19	100.0	126	5	ABU49557	ABU49557	Protein e
303	19	100.0	106	5	ABP07850	ABP07850	Human ORF		376	19	100.0	127	3	AAAG38548	AAAG38548	Arabidops
304	19	100.0	106	8	ADP45874	ADP45874	Amino aci		377	19	100.0	127	3	AAAG37202	AAAG37202	Arabidops
305	19	100.0	107	3	AAAG38549	AAAG38549	Arabidops		378	19	100.0	127	3	AAAG25825	AAAG25825	Arabidops
306	19	100.0	107	3	AAAG25826	AAAG25826	Arabidops		379	19	100.0	127	4	ABG23018	ABG23018	Novel hum
307	19	100.0	107	4	AAU27665	AAU27665	Human pro		380	19	100.0	127	5	ABG76519	ABG76519	HCV El an
308	19	100.0	107	4	AAU43191	AAU43191	Proionib		381	19	100.0	127	5	AAAB17459	AAAB17459	Mouse sec
309	19	100.0	107	4	AAAB07078	AAAB07078	Human gen		382	19	100.0	128	3	AAAB53358	AAAB53358	Human col
310	19	100.0	107	4	AAU20963	AAU20963	Human nov		383	19	100.0	128	8	ADK87918	ADK87918	Plant ful
311	19	100.0	107	5	ABG65099	ABG65099	Human alb		384	19	100.0	129	3	AAAG3896	AAAG3896	Arabidops
312	19	100.0	107	6	ABM39710	ABM39710	Proionib		385	19	100.0	129	6	ABU70484	ABU70484	Human adi
313	19	100.0	107	8	ADL78366	ADL78366	Albumin f		386	19	100.0	130	6	ABU33550	ABU33550	Protein e
314	19	100.0	108	5	ADK35938	ADK35938	Novel hum		387	19	100.0	130	9	ABE841937	ABE841937	L. pneumo
315	19	100.0	109	4	AAU4612	AAU4612	Proionib		388	19	100.0	131	3	AAV53560	AAV53560	Human 5'
316	19	100.0	109	4	AAU4612	AAU4612	Proionib		389	19	100.0	131	3	AAV53560	AAV53560	Human 5'

390	19	100.0	131	3	AA633895	Aag33895 Arabidops	463	19	100.0	148	8	AD52636	Ad52636 Bacterial
391	19	100.0	131	8	AD808724	Ad808724 Human pro	464	19	100.0	149	4	AA012923	Aa012923 Human pol
392	19	100.0	131	8	ADU72924	AdU72924 Non-sigma	465	19	100.0	150	2	AA129844	AaY12984 Human sig
393	19	100.0	131	9	ADZ73915	AdZ73915 Human inc	466	19	100.0	150	4	AAU54480	Aau54480 Propionib
394	19	100.0	132	4	AA895434	AaB95434 Human pro	467	19	100.0	150	6	ABM50999	Abm50999 Propionib
395	19	100.0	132	8	AD801297	Ad801297 Farnesyl	468	19	100.0	150	7	ADH34365	AdH34365 Vibrio ch
396	19	100.0	133	4	AA815391	AaM15391 Peptide #	469	19	100.0	150	8	ADY23136	AdY23136 Plant ful
397	19	100.0	133	4	AB843397	Ab843397 Peptide #	470	19	100.0	152	3	AA857156	AA857156 Human pro
398	19	100.0	133	4	AA843928	AA843928 Peptide #	471	19	100.0	152	4	ABG16639	ABg16639 Novel hum
399	19	100.0	133	4	AA827879	AaM7879 Peptide #	472	19	100.0	152	2	AAW77754	AAw77754 Staphyloc
400	19	100.0	133	4	AB829234	Ab829234 Peptide #	473	19	100.0	153	3	AA77576	AaY77576 Human cyc
401	19	100.0	133	4	AB819808	Ab819808 Protein #	474	19	100.0	153	3	AA841043	AA841043 Human ORF
402	19	100.0	133	4	AA867582	AaM67582 Human bon	475	19	100.0	153	4	AA838917	AA838917 Human pol
403	19	100.0	133	4	AB849228	AB849228 Human bra	476	19	100.0	153	4	ABG27650	ABg27650 Novel hum
404	19	100.0	133	4	AA803153	AA803153 Peptide #	477	19	100.0	153	4	AAU31783	AAu31783 Novel hum
405	19	100.0	133	4	AA829279	AaM29279 C glutam	478	19	100.0	153	5	ABP09251	ABp09251 Human ORF
406	19	100.0	133	5	AB837173	AB837173 Human pep	479	19	100.0	153	5	AA817872	AAe17872 Sequence
407	19	100.0	133	5	ADK36712	AdK36712 Novel hum	480	19	100.0	153	5	AB849178	AB849178 Listeria
408	19	100.0	133	6	ABU00401	Abu00401 Human nov	481	19	100.0	153	6	ABU58176	ABu58176 Soybean g
409	19	100.0	133	9	ABM92218	ABm92218 M. xanthu	482	19	100.0	153	6	ADA54840	ADA54840 Human pro
410	19	100.0	134	8	ADU16466	AdU16466 M. tuberc	483	19	100.0	153	6	ABU08006	ABu08006 Guar meta
411	19	100.0	135	2	AA136512	AA136512 Fragment	484	19	100.0	153	6	ABR47525	ABr47525 Breast ca
412	19	100.0	135	6	ADA12068	Ada12068 Human nov	485	19	100.0	153	7	AD861633	AD861633 Rat Prote
413	19	100.0	135	9	AB838714	AB838714 L. pneumo	486	19	100.0	153	7	AD664497	AD664497 Family A
414	19	100.0	135	5	ABJ10959	AbJ10959 Yeast sel	487	19	100.0	153	8	ADN04998	Adn04998 Antipor1
415	19	100.0	136	8	ABU21645	ABu21645 Protein e	488	19	100.0	153	8	ADQ67007	ADq67007 Novel hum
416	19	100.0	136	8	AD832607	AD832607 Maize per	489	19	100.0	153	8	ADP55493	ADp55493 Human PRO
417	19	100.0	138	5	AB849093	ABb49093 Listeria	490	19	100.0	153	8	ADP25213	ADp25213 PRO poly
418	19	100.0	138	6	ABU32715	ABu32715 Protein e	491	19	100.0	153	8	AD760578	AD760578 Plant pol
419	19	100.0	139	6	AA841059	AA841059 Zea maye	492	19	100.0	154	2	AAW20648	AAw20648 H. pylori
420	19	100.0	139	7	ABO64152	ABO64152 Klebsiell	493	19	100.0	154	2	AAW30642	AAw30642 A. thalia
421	19	100.0	140	2	AAV69950	AAv69950 Protein i	494	19	100.0	154	3	AA844503	AA844503 Plant vir
422	19	100.0	140	4	AB821912	AB821912 Novel lam	495	19	100.0	154	4	AA893661	AA893661 Human pro
423	19	100.0	140	5	ABP02193	ABp02193 Human ORF	496	19	100.0	154	6	ABU22969	ABu22969 Protein e
424	19	100.0	140	5	AB877702	ABb77702 Amino aci	497	19	100.0	154	8	ADR09025	ADR09025 Human pro
425	19	100.0	140	7	ADC01512	ADC01512 Enterohae	498	19	100.0	154	9	AEA79750	Aea79750 Cellulomo
426	19	100.0	140	8	ADR05621	ADR05621 E. coli TH	499	19	100.0	154	9	AEA48243	Aea48243 Homologou
427	19	100.0	141	4	AB867857	ABb67857 Drosophi1	500	19	100.0	155	2	AAW95496	AAw95496 M. lepreae
428	19	100.0	141	5	AA849445	AA849445 Lactobaci							
429	19	100.0	141	6	ABU25143	ABu25143 Protein e							
430	19	100.0	141	7	ADM05254	Adm05254 Human pro							
431	19	100.0	141	8	ABO59733	ABO59733 Human gen							
432	19	100.0	141	9	AEA79768	Aea79768 Xylanihac							
433	19	100.0	141	9	AEA48261	Aea48261 Bsp 69B4							
434	19	100.0	142	2	AA828048	AA828048 Threonine							
435	19	100.0	142	4	AA887450	AA887450 Human gen							
436	19	100.0	142	9	ABM96670	ABm96670 M. xanthu							
437	19	100.0	142	8	ADX73317	AdX73317 Plant ful							
438	19	100.0	142	9	ABM96670	ABm96670 M. xanthu							
439	19	100.0	142	9	ABM96670	ABm96670 M. xanthu							
440	19	100.0	143	2	AAV04782	AAv04782 Mycobacte							
441	19	100.0	143	4	AA825848	AA825848 Human pro							
442	19	100.0	143	6	ABU29973	ABu29973 Protein e							
443	19	100.0	144	4	ABG18087	ABg18087 Novel hum							
444	19	100.0	144	8	ADX73393	AdX73393 Plant ful							
445	19	100.0	144	8	AEA43773	AEA43773 C. necato							
446	19	100.0	145	4	AA840398	AA840398 Propionib							
447	19	100.0	145	7	ABM36917	ABm36917 Propionib							
448	19	100.0	145	7	ADP66822	ADp66822 Helicobac							
449	19	100.0	145	8	ADP66824	ADp66824 Helicobac							
450	19	100.0	145	8	ADX93828	ADx93828 Plant ful							
451	19	100.0	146	4	ABG29413	ABg29413 Novel hum							
452	19	100.0	146	5	ADG79448	ADg79448 Human sec							
453	19	100.0	146	8	ADX73014	AdX73014 Plant ful							
454	19	100.0	147	3	AA846520	AA846520 Human gen							
455	19	100.0	147	4	AA846520	AA846520 Human gen							
456	19	100.0	147	6	ABO53684	ABO53684 Novel hum							
457	19	100.0	147	6	ADA36367	ADA36367 Actinetoba							
458	19	100.0	148	3	AA825824	AA825824 Arabidops							
459	19	100.0	148	3	AA838547	AA838547 Arabidops							
460	19	100.0	148	3	AA837201	AA837201 Arabidops							
461	19	100.0	148	4	AA891759	AA891759 C glutam							
462	19	100.0	148	7	AD874343	AD874343 Mycobacte							

ALIGNMENTS

RESULT 1	
ADC97878	ADC97878 standard; peptide; 4 AA.
XX	
AC	ADC97878;
XX	
DT	01-JAN-2004 (first entry)
XX	
DE	Signalling molecule gene regulatory peptide.
XX	
KW	gene expression modulation; signalling molecule;
KW	NF-kappaB/Rel protein inhibitor; antiinflammatory; antiarthritis;
KW	cerebroprotective; cardiant; anticancer; immunosuppressive;
KW	dermatological; nephrotropic; NF-kappaB/Rel protein modulator;
KW	inflammatory disease; arthritis; ischaemia; cerebrovascular disease;
KW	ischaemic heart failure; anthrax; angiogenesis; autoimmune disease;
KW	systemic lupus erythematosus; ulcerative colitis; Addison's disease;
XX	Goodpasture's disease.
XX	
OS	Synthetic.
XX	
PN	WO2003029292-A2.
XX	
PD	10-APR-2003.
XX	
PF	04-OCT-2002; 2002WO-NL000639.
XX	
PR	04-OCT-2001; 2001EP-00203748.
XX	
PR	21-DEC-2001; 2001US-00028075.
XX	

PA (UYRO-) UNIV ROTTERDAM ERASMUS.
 XX Khan NA, Benner R;
 PI WPI; 2003-393380/37.
 XX
 DR Modulating gene expression in a cell, useful for treating acute or
 PT chronic inflammatory diseases (e.g. arthritis), ischemic events or
 PT autoimmune diseases, comprises providing the cell with a signaling
 PT molecule.
 XX
 PS Disclosure; Page 44; 217pp; English.
 XX
 CC The present invention describes a method for modulating gene expression
 CC in a cell comprising providing the cell with a signaling molecule
 CC comprising a peptide or its functional analogue. Also described: (1)
 CC identifying or obtaining a signaling molecule comprising a peptide or
 CC its functional derivative or analogue capable of modulating expression of
 CC a gene in a cell; (2) a signaling molecule useful in modulating
 CC expression of a gene in a cell and identifiable or obtainable by the
 CC method of (1); and (3) an inhibitor of nuclear factor (NF)-kappaB/Rel
 CC protein activation comprising a signaling molecule of (2). The
 CC signaling molecule has antiinflammatory, antiarthritic,
 CC cerebroprotective, cardiant, antibacterial, immunosuppressive,
 CC dermatological and nephrotropic activities, and can be used as a NF-
 CC kappaB/Rel protein modulator. The signaling molecule is useful for the
 CC production of a pharmaceutical composition for the modulation of gene
 CC expression by inhibiting NF-kappaB/Rel protein activation. The method is
 CC useful for modulating gene expression, and for treating acute or chronic
 CC inflammatory diseases (e.g. arthritis), ischemic event including
 CC cerebrovascular disease and ischemic heart failure, anthrax,
 CC angiogenesis, or autoimmune diseases (e.g. systemic lupus erythematosus,
 CC ulcerative colitis, Addison's disease or Goodpasture's disease). The
 CC present sequence represents a peptide used in the exemplification of the
 CC present invention.
 CC
 XX Sequence 4 AA;
 SQ
 Query Match 100.0%; Score 19; DB 7; Length 4;
 Best Local Similarity 100.0%; Pred. No. 2e+06;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 AOCV 4
 Db 1 AOCV 4
 RESULT 2
 ID ADC97891 standard; peptide; 4 AA.
 XX ADC97891;
 XX
 DT 01-JAN-2004 (first entry)
 XX
 DE Signalling molecule gene regulatory peptide.
 XX
 KM gene expression modulation; signalling molecule;
 KM NF-kappaB/Rel protein inhibitor; antiinflammatory; antiarthritic;
 KM cerebroprotective; cardiant; antibacterial; immunosuppressive;
 KM dermatological; nephrotropic; NF-kappaB/Rel protein modulator;
 KM inflammatory disease; arthritis; ischaemia; cerebrovascular disease;
 KM ischaemic heart failure; anthrax; angiogenesis; autoimmune disease;
 KM systemic lupus erythematosus; ulcerative colitis; Addison's disease;
 KM Goodpasture's disease.
 XX
 OS Synthetic.
 XX
 PN WO2003029292-A2.
 XX
 PD 10-APR-2003.
 XX
 PF 04-OCT-2002; 2002WO-NL000639.

XX 04-OCT-2001; 2001EP-00203748.
 PR 21-DEC-2001; 2001US-00028075.
 XX
 XX (UYRO-) UNIV ROTTERDAM ERASMUS.
 PA Khan NA, Benner R;
 PI WPI; 2003-393380/37.
 XX
 DR Modulating gene expression in a cell, useful for treating acute or
 PT chronic inflammatory diseases (e.g. arthritis), ischemic events or
 PT autoimmune diseases, comprises providing the cell with a signaling
 PT molecule.
 XX
 PS Example; Page 69; 217pp; English.
 XX
 CC The present invention describes a method for modulating gene expression
 CC in a cell comprising providing the cell with a signaling molecule
 CC comprising a peptide or its functional analogue. Also described: (1)
 CC identifying or obtaining a signaling molecule comprising a peptide or
 CC its functional derivative or analogue capable of modulating expression of
 CC a gene in a cell; (2) a signaling molecule useful in modulating
 CC expression of a gene in a cell and identifiable or obtainable by the
 CC method of (1); and (3) an inhibitor of nuclear factor (NF)-kappaB/Rel
 CC protein activation comprising a signaling molecule of (2). The
 CC signaling molecule has antiinflammatory, antiarthritic,
 CC cerebroprotective, cardiant, antibacterial, immunosuppressive,
 CC dermatological and nephrotropic activities, and can be used as a NF-
 CC kappaB/Rel protein modulator. The signaling molecule is useful for the
 CC production of a pharmaceutical composition for the modulation of gene
 CC expression by inhibiting NF-kappaB/Rel protein activation. The method is
 CC useful for modulating gene expression, and for treating acute or chronic
 CC inflammatory diseases (e.g. arthritis), ischemic event including
 CC cerebrovascular disease and ischemic heart failure, anthrax,
 CC angiogenesis, or autoimmune diseases (e.g. systemic lupus erythematosus,
 CC ulcerative colitis, Addison's disease or Goodpasture's disease). The
 CC present sequence represents a peptide used in the exemplification of the
 CC present invention.
 CC
 XX Sequence 4 AA;
 SQ
 Query Match 100.0%; Score 19; DB 7; Length 4;
 Best Local Similarity 100.0%; Pred. No. 2e+06;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 AOCV 4
 Db 1 AOCV 4
 RESULT 3
 ID ADC98118 standard; peptide; 4 AA.
 XX ADC98118;
 XX
 DT 01-JAN-2004 (first entry)
 XX
 DE Signalling molecule gene regulatory peptide.
 XX
 KM gene expression modulation; signalling molecule;
 KM NF-kappaB/Rel protein inhibitor; antiinflammatory; antiarthritic;
 KM cerebroprotective; cardiant; antibacterial; immunosuppressive;
 KM dermatological; nephrotropic; NF-kappaB/Rel protein modulator;
 KM inflammatory disease; arthritis; ischaemia; cerebrovascular disease;
 KM ischaemic heart failure; anthrax; angiogenesis; autoimmune disease;
 KM systemic lupus erythematosus; ulcerative colitis; Addison's disease;
 KM Goodpasture's disease.
 XX
 OS Synthetic.
 XX
 PN WO2003029292-A2.

XX 10-APR-2003.
 PD
 XX
 XX 04-OCT-2002; 2002WO-NL000639.
 PF
 XX
 XX 04-OCT-2001; 2001EP-00203748.
 PR
 XX 21-DEC-2001; 2001US-00028075.
 XX
 PA (UYRO-) UNIV ROTTERDAM ERASMUS.
 XX
 XX Khan NA, Benner R;
 PI
 XX WPI; 2003-393380/37.
 DR
 XX
 XX Modulating gene expression in a cell, useful for treating acute or
 PT chronic inflammatory diseases (e.g. arthritis), ischemic events or
 PT autoimmune diseases, comprises providing the cell with a signaling
 PT molecule.
 XX
 XX Example; Page 98; 217pp; English.
 PS
 XX The present invention describes a method for modulating gene expression
 CC in a cell comprising providing the cell with a signalling molecule
 CC comprising a peptide or its functional analogue. Also described: (1)
 CC identifying or obtaining a signalling molecule comprising a peptide or
 CC its functional derivative or analogue capable of modulating expression of
 CC a gene in a cell; (2) a signalling molecule useful in modulating
 CC expression of a gene in a cell and identifiable or obtainable by the
 CC method of (1); and (3) an inhibitor of nuclear factor (NF)-kappaB/Rel
 CC protein activation comprising a signalling molecule of (2). The
 CC signalling molecule has antiinflammatory, antiarthritic,
 CC cerebroprotective, cardiant, antibacterial, immunosuppressive,
 CC dermatological and nephrotropic activities, and can be used as a NF-
 CC kappaB/Rel protein modulator. The signalling molecule is useful for the
 CC production of a pharmaceutical composition for the modulation of gene
 CC expression by inhibiting NF-kappaB/Rel protein activation. The method is
 CC useful for modulating gene expression, and for treating acute or chronic
 CC inflammatory diseases (e.g. arthritis), ischemic event including
 CC cerebrovascular disease and ischemic heart failure, anthrax,
 CC angio genesis, or autoimmune diseases (e.g. systemic lupus erythematosus,
 CC ulcerative colitis, Addison's disease or Goodpasture's disease). The
 CC present sequence represents a peptide used in the exemplification of the
 CC present invention.
 CC
 XX
 SO Sequence 4 AA;
 Query Match 100.0%; Score 19; DB 7; Length 4;
 Best Local Similarity 100.0%; Pred. No. 2e+06; Mismatches 0; Indels 0; Gaps 0;
 Matches 4; Conservative 0;
 QY 1 AOGV 4
 Db 1 AOGV 4
 RESULT 4
 ADC97855
 ID ADC97855 standard; peptide; 4 AA.
 AC ADC97855;
 XX
 XX
 DT 01-JAN-2004 (first entry)
 XX
 DE Signalling molecule gene regulatory peptide.
 XX gene expression modulation; signalling molecule;
 KW NF-kappaB/Rel protein inhibitor; antiinflammatory; antiarthritic;
 KW cerebroprotective; cardiant; antibacterial; immunosuppressive;
 KW dermatological; nephrotropic; NF-kappaB/Rel protein modulator;
 KW inflammatory disease; arthritis; ischaemia; cerebrovascular disease;
 KW ischaemic heart failure; anthrax; angio genesis; autoimmune disease;
 KW systemic lupus erythematosus; ulcerative colitis; Addison's disease;
 KW Goodpasture's disease.

XX Synthetic.
 OS
 XX
 XX MO2003029292-A2.
 PN
 XX
 XX 10-APR-2003.
 PD
 XX
 XX 04-OCT-2002; 2002WO-NL000639.
 PF
 XX
 XX 04-OCT-2001; 2001EP-00203748.
 PR
 XX 21-DEC-2001; 2001US-00028075.
 XX
 PA (UYRO-) UNIV ROTTERDAM ERASMUS.
 XX
 XX Khan NA, Benner R;
 PI
 XX WPI; 2003-393380/37.
 DR
 XX
 XX Modulating gene expression in a cell, useful for treating acute or
 PT chronic inflammatory diseases (e.g. arthritis), ischemic events or
 PT autoimmune diseases, comprises providing the cell with a signaling
 PT molecule.
 XX
 XX Disclosure; Page 40; 217pp; English.
 PS
 XX The present invention describes a method for modulating gene expression
 CC in a cell comprising providing the cell with a signalling molecule
 CC comprising a peptide or its functional analogue. Also described: (1)
 CC identifying or obtaining a signalling molecule comprising a peptide or
 CC its functional derivative or analogue capable of modulating expression of
 CC a gene in a cell; (2) a signalling molecule useful in modulating
 CC expression of a gene in a cell and identifiable or obtainable by the
 CC method of (1); and (3) an inhibitor of nuclear factor (NF)-kappaB/Rel
 CC protein activation comprising a signalling molecule of (2). The
 CC signalling molecule has antiinflammatory, antiarthritic,
 CC cerebroprotective, cardiant, antibacterial, immunosuppressive,
 CC dermatological and nephrotropic activities, and can be used as a NF-
 CC kappaB/Rel protein modulator. The signalling molecule is useful for the
 CC production of a pharmaceutical composition for the modulation of gene
 CC expression by inhibiting NF-kappaB/Rel protein activation. The method is
 CC useful for modulating gene expression, and for treating acute or chronic
 CC inflammatory diseases (e.g. arthritis), ischemic event including
 CC cerebrovascular disease and ischemic heart failure, anthrax,
 CC angio genesis, or autoimmune diseases (e.g. systemic lupus erythematosus,
 CC ulcerative colitis, Addison's disease or Goodpasture's disease). The
 CC present sequence represents a peptide used in the exemplification of the
 CC present invention.
 CC
 XX
 SO Sequence 4 AA;
 Query Match 100.0%; Score 19; DB 7; Length 4;
 Best Local Similarity 100.0%; Pred. No. 2e+06; Mismatches 0; Indels 0; Gaps 0;
 Matches 4; Conservative 0;
 QY 1 AOGV 4
 Db 1 AOGV 4
 RESULT 5
 ADC98185
 ID ADC98185 standard; peptide; 4 AA.
 AC ADC98185;
 XX
 XX
 DT 01-JAN-2004 (first entry)
 XX
 DE Signalling molecule gene regulatory peptide.
 XX gene expression modulation; signalling molecule;
 KW NF-kappaB/Rel protein inhibitor; antiinflammatory; antiarthritic;
 KW cerebroprotective; cardiant; antibacterial; immunosuppressive;
 KW dermatological; nephrotropic; NF-kappaB/Rel protein modulator;

KM inflammatory disease; arthritis; ischaemia; cerebrovascular disease;
 KM ischemic heart failure; anthrax; angiogenesis; autoimmune disease;
 KM systemic lupus erythematosus; ulcerative colitis; Addison's disease;
 KM Goodpasture's disease.
 OS Synthetic.
 KM MO2003029292-A2.
 PN 10-APR-2003.
 XX 10-APR-2003.
 XX 04-OCT-2002; 2002MO-NL000639.
 PF 04-OCT-2001; 2001EP-00203748.
 PR 21-DEC-2001; 2001US-00028075.
 XX (UYRO-) UNIV ROTTERDAM ERASMUS.
 PA Khan NA, Benner R;
 PI WPI; 2003-393380/37.
 DR Modulating gene expression in a cell, useful for treating acute or
 XX chronic inflammatory diseases (e.g. arthritis), ischemic events or
 PT autoimmune diseases, comprises providing the cell with a signaling
 PT molecule.
 XX Example; Page 102; 217pp; English.
 PS The present invention describes a method for modulating gene expression
 XX in a cell comprising providing the cell with a signaling molecule
 CC comprising a peptide or its functional analogue. Also described: (1)
 CC identifying or obtaining a signaling molecule comprising a peptide or
 CC its functional derivative or analogue capable of modulating expression of
 CC a gene in a cell; (2) a signaling molecule useful in modulating
 CC expression of a gene in a cell and identifiable or obtainable by the
 CC method of (1); and (3) an inhibitor of nuclear factor (NF)-kappaB/Rel
 CC protein activation comprising a signaling molecule of (2). The
 CC signaling molecule has antiinflammatory, antiarthritic,
 CC cerebroprotective, cardiant, antibacterial, immunosuppressive,
 CC dermatological and nephrotoxic activities, and can be used as a NF-
 CC kappaB/Rel protein modulator. The signaling molecule is useful for the
 CC production of a pharmaceutical composition for the modulation of gene
 CC expression by inhibiting NF-kappaB/Rel protein activation. The method is
 CC useful for modulating gene expression, and for treating acute or chronic
 CC inflammatory diseases (e.g. arthritis), ischemic event including
 CC cerebrovascular disease and ischemic heart failure, anthrax,
 CC angiogenesis, or autoimmune diseases (e.g. systemic lupus erythematosus,
 CC ulcerative colitis, Addison's disease or Goodpasture's disease). The
 CC present sequence represents a peptide used in the exemplification of the
 CC present invention.
 CC XX
 SQ Sequence 4 AA;
 Query Match 100.0%; Score 19; DB 7; Length 4;
 Best Local Similarity 100.0%; Pred. No. 2e+06; 0;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 ACGV 4
 DB 1 ACGV 4
 RESULT 6
 ADC98145
 ID ADC98145 standard; peptide; 4 AA.
 AC ADC98145;
 XX 01-JAN-2004 (first entry)
 DT Signalling molecule gene regulatory peptide.
 XX
 DE
 XX

KM gene expression modulation; signalling molecule;
 KM NF-kappaB/Rel protein inhibitor; antiinflammatory; antiarthritic;
 KM cerebroprotective; cardiant; antibacterial; immunosuppressive;
 KM dermatological; nephrotoxic; NF-kappaB/Rel protein modulator;
 KM inflammatory disease; arthritis; ischaemia; cerebrovascular disease;
 KM ischemic heart failure; anthrax; angiogenesis; autoimmune disease;
 KM systemic lupus erythematosus; ulcerative colitis; Addison's disease;
 KM Goodpasture's disease.
 OS Synthetic.
 KM MO2003029292-A2.
 PN 10-APR-2003.
 XX 10-APR-2003.
 XX 04-OCT-2002; 2002MO-NL000639.
 PF 04-OCT-2001; 2001EP-00203748.
 PR 21-DEC-2001; 2001US-00028075.
 XX (UYRO-) UNIV ROTTERDAM ERASMUS.
 PA Khan NA, Benner R;
 PI WPI; 2003-393380/37.
 DR Modulating gene expression in a cell, useful for treating acute or
 XX chronic inflammatory diseases (e.g. arthritis), ischemic events or
 PT autoimmune diseases, comprises providing the cell with a signaling
 PT molecule.
 XX Example; Page 101; 217pp; English.
 PS The present invention describes a method for modulating gene expression
 XX in a cell comprising providing the cell with a signaling molecule
 CC comprising a peptide or its functional analogue. Also described: (1)
 CC identifying or obtaining a signaling molecule comprising a peptide or
 CC its functional derivative or analogue capable of modulating expression of
 CC a gene in a cell; (2) a signaling molecule useful in modulating
 CC expression of a gene in a cell and identifiable or obtainable by the
 CC method of (1); and (3) an inhibitor of nuclear factor (NF)-kappaB/Rel
 CC protein activation comprising a signaling molecule of (2). The
 CC signaling molecule has antiinflammatory, antiarthritic,
 CC cerebroprotective, cardiant, antibacterial, immunosuppressive,
 CC dermatological and nephrotoxic activities, and can be used as a NF-
 CC kappaB/Rel protein modulator. The signaling molecule is useful for the
 CC production of a pharmaceutical composition for the modulation of gene
 CC expression by inhibiting NF-kappaB/Rel protein activation. The method is
 CC useful for modulating gene expression, and for treating acute or chronic
 CC inflammatory diseases (e.g. arthritis), ischemic event including
 CC cerebrovascular disease and ischemic heart failure, anthrax,
 CC angiogenesis, or autoimmune diseases (e.g. systemic lupus erythematosus,
 CC ulcerative colitis, Addison's disease or Goodpasture's disease). The
 CC present sequence represents a peptide used in the exemplification of the
 CC present invention.
 CC XX
 SQ Sequence 4 AA;
 Query Match 100.0%; Score 19; DB 7; Length 4;
 Best Local Similarity 100.0%; Pred. No. 2e+06; 0;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 ACGV 4
 DB 1 ACGV 4
 RESULT 7
 ADC97811
 ID ADC97811 standard; peptide; 4 AA.
 AC ADC97811;
 XX
 DE
 XX

DT 01-JAN-2004 (first entry)
 XX
 DE Signalling molecule gene regulatory peptide.
 XX
 KW gene expression modulation; signalling molecule;
 KW NF-kappaB/Rel protein inhibitor; antiinflammatory; antiarthritic;
 KW cerebroprotective; cardiant; antibacterial; immunosuppressive;
 KW dermatological; nephrotropic; NF-kappaB/Rel protein modulator;
 KW inflammatory disease; arthritis; ischemia; cerebrovascular disease;
 KW ischemic heart failure; anthrax; angio genesis; autoimmune disease;
 KW systemic lupus erythematosus; ulcerative colitis; Addison's disease;
 KW Goodpasture's disease.
 XX
 OS Synthetic.
 XX
 PN WO2003029292-A2.
 XX
 PD 10-APR-2003.
 XX
 PF 04-OCT-2002; 2002WO-NL000639.
 XX
 PR 04-OCT-2001; 2001EP-00203748.
 XX
 PR 21-DEC-2001; 2001US-00028075.
 XX
 PA (UYRO-) UNIV ROTTERDAM ERASMUS.
 XX
 PI Khan NA, Benner R;
 XX
 DR WPI; 2003-393380/37.
 XX
 PT Modulating gene expression in a cell, useful for treating acute or
 PT chronic inflammatory diseases (e.g. arthritis), ischemic events or
 PT autoimmune diseases, comprises providing the cell with a signaling
 PT molecule.
 XX
 PS Claim 18; Page 125; 217pp; English.
 XX
 CC The present invention describes a method for modulating gene expression
 CC in a cell comprising providing the cell with a signalling molecule
 CC comprising a peptide or its functional analogue. Also described: (1)
 CC identifying or obtaining a signalling molecule comprising a peptide or
 CC its functional derivative or analogue capable of modulating expression of
 CC a gene in a cell; (2) a signalling molecule useful in modulating
 CC expression of a gene in a cell and identifiable or obtainable by the
 CC method of (1); and (3) an inhibitor of nuclear factor (NF)-kappaB/Rel
 CC protein activation comprising a signalling molecule of (2). The
 CC signalling molecule has antiinflammatory, antiarthritic,
 CC cerebroprotective, cardiant, antibacterial, immunosuppressive,
 CC dermatological and nephrotropic activities, and can be used as a NF-
 CC kappaB/Rel protein modulator. The signalling molecule is useful for the
 CC production of a pharmaceutical composition for the modulation of gene
 CC expression by inhibiting NF-kappaB/Rel protein activation. The method is
 CC useful for modulating gene expression, and for treating acute or chronic
 CC inflammatory diseases (e.g. arthritis), ischemic event including
 CC cerebrovascular disease and ischemic heart failure, anthrax,
 CC angio genesis, or autoimmune diseases (e.g. systemic lupus erythematosus,
 CC ulcerative colitis, Addison's disease or Goodpasture's disease). The
 CC present sequence represents a peptide used in the exemplification of the
 CC present invention.
 CC
 SQ Sequence 4 AA;
 XX
 XX
 Query Match 100.0%; Score 19; DB 7; Length 4;
 Best Local Similarity 100.0%; Pred. No. 2e+06; 0;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

ID ADN01224 standard; peptide; 4 AA.
 XX
 AC ADN01224;
 XX
 DT 17-JUN-2004 (first entry)
 XX
 DE Human nuclear factor-kappaB modulating peptide NMPF-46.
 XX
 KW Human; nuclear factor-kappaB; NMPF; inflammatory condition;
 KW nitrogen oxide; anthrax; gene transcription factor;
 KW tumour necrosis factor alpha; TNF-alpha.
 XX
 OS Homo sapiens.
 XX
 PN US2003119720-A1.
 XX
 PD 26-JUN-2003.
 XX
 PF 21-DEC-2001; 2001US-00029206.
 XX
 PR 29-MAR-2001; 2001US-00821380.
 XX
 PA (KHAN/) KHAN N A.
 XX
 PA (BENN/) BENNER R.
 XX
 PI Khan NA, Benner R;
 XX
 DR WPI; 2003-810947/76.
 XX
 PT Treatment of an inflammatory condition, e.g. anthrax, comprises
 PT administering, to a subject, a molecule comprising an oligopeptide
 PT peptide or its functional analog.
 XX
 PS Claim 9; Page 16; 80pp; English.
 XX
 CC The invention relates to treating an inflammatory condition by
 CC administering to a subject a molecule comprising an oligopeptide peptide
 CC (termed NMPF) or its functional analogue capable of reducing production
 CC of nitrogen oxide by a cell. The peptides are derived from human proteins
 CC interacting with nuclear factor-kappaB. The method is for treating an
 CC acute inflammatory condition, e.g. anthrax. The inventive molecule
 CC reduces production of nitrogen oxide by a cell, and modulates
 CC translocation and/or activity of a gene transcription factor in the cell
 CC to allow modulation of tumour necrosis factor (TNF)-alpha production by
 CC the cell. The present sequence is an oligopeptide of the invention.
 CC
 SQ Sequence 4 AA;
 XX
 XX
 Query Match 100.0%; Score 19; DB 7; Length 4;
 Best Local Similarity 100.0%; Pred. No. 2e+06; 0;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
 ||||
 DB 1 ACGV 4

RESULT 9
 ID ADG86532 standard; peptide; 4 AA.
 XX
 AC ADG86532;
 XX
 DT 11-MAR-2004 (first entry)
 XX
 DE NF-kappaB gene-regulatory peptide #2.
 XX
 KW Ischaemic event; nuclear factor-kappaB; NF-kappaB;
 KW gene-regulatory peptide; down-regulation; thrombolytic agent;
 KW tissue plasminogen activator; stroke; myocardial infarction;
 KW pro-inflammatory cytokine; vasotropic; cerebroprotective; vasotropic;
 KW cardiant.
 XX

OS Unidentified.
XX
PN US2003220258-A1.
XX
PD 27-NOV-2003.
XX
PF 08-APR-2003; 2003US-00409642.
XX
PR 21-DEC-2001; 2001US-00028075.
XX
PA (BENN/) BENNER R.
XX
PA (KHAN/) KHAN N A.
XX
PI (JACO/) JACOBS B C J.
XX
PI Benner R, Khan NA, Jacobs BCJ;
XX
PI WPI; 2004-097355/10.
XX
PT Modulating ischemic event in subject involves providing the subject with
PT gene-regulatory peptide or its functional analogue.
PS Example; SEQ ID NO 2; 17pp; English.
XX
CC The present invention relates to a method for modulating or treating
CC ischemic events in a subject. The method involves providing the subject
CC with a nuclear factor-kappaB (NF-kappaB) gene-regulatory peptide or its
CC functional analogue. The method comprises providing the subject with an
CC NF-kappaB down-regulating peptide or its functional analogue, and a
CC thrombolytic agent having tissue plasminogen activity. The method of the
CC invention is useful for modulating or treating ischemic events such as
CC stroke or myocardial infarction in a subject. The invention is capable of
CC modulating expression of gene encoding a pro-inflammatory cytokine. The
CC present sequence represents a NF-kappaB gene-regulatory peptide.
XX
SQ Sequence 4 AA;
XX
Query Match 100.0%; Score 19; DB 8; Length 4;
Best Local Similarity 100.0%; Pred. No. 2e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1 ACGV 4
DB 1 ACGV 4
XX
RESULT 10
ADG86590
ID ADG86590 standard; peptide; 4 AA.
XX
AC ADG86590;
XX
DT 11-MAR-2004 (first entry)
XX
DE NF-kappaB gene-regulatory peptide #2.
XX
XX Iatrogenic event; nuclear factor-kappaB; NF-kappaB;
KW gene-regulatory peptide; down-regulation; cell lysis;
KW tissue; iatrogenic disease; pro-inflammatory cytokine response;
KW anti-inflammatory.
XX
OS Unidentified.
XX
PN US2003220261-A1.
XX
PD 27-NOV-2003.
XX
PF 08-APR-2003; 2003US-00409671.
XX
PR 21-DEC-2001; 2001US-00028075.
XX
PA (KHAN/) KHAN N A.
XX
PA (BENN/) BENNER R.
XX

PI Khan NA, Benner R;
XX
DR WPI; 2004-107014/11.
XX
PT Modulating an iatrogenic event in a subject, useful for treating a
PT subject suffering from iatrogenic disease, comprises providing the
PT subject with a gene-regulatory peptide or its functional analogue.
XX
PS Example; SEQ ID NO 2; 16pp; English.
XX
CC The present invention relates to a method for modulating or treating an
CC iatrogenic event in a subject. The method involves providing the subject
CC with a nuclear factor-kappaB (NF-kappaB) gene-regulatory peptide or its
CC functional analogue. The method comprises providing the subject with an
CC NF-kappaB down-regulating peptide or its functional analogue. The
CC iatrogenic event involves destruction or lysis of a cell or tissue of the
CC subject or of a pathogen hosted by the subject. Modulating an iatrogenic
CC event is useful for treating subjects suffering from iatrogenic disease.
CC The gene-regulatory peptide, e.g. nuclear factor-kappa B down-regulating
CC peptide, is useful for producing a pharmaceutical composition for the
CC treatment of an additional pro-inflammatory cytokine response occurring
CC after an iatrogenic event in a subject. The present sequence represents a
CC NF-kappaB gene-regulatory peptide.
XX
SQ Sequence 4 AA;
XX
Query Match 100.0%; Score 19; DB 8; Length 4;
Best Local Similarity 100.0%; Pred. No. 2e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1 ACGV 4
DB 1 ACGV 4
XX
RESULT 11
ADH29151
ID ADH29151 standard; peptide; 4 AA.
XX
AC ADH29151;
XX
DT 11-MAR-2004 (first entry)
XX
DE Necrosis factor kappa B (NFkB) down regulating peptide #2.
XX
XX immunosuppressant; gene therapy; NF-kappaB antagonist;
KW Rel protein-antagonist; transplant; gene-regulatory;
KW hypertonic pharmaceutical composition; NF-kappaB down-regulating peptide;
KW chronic rejection; necrosis factor kappa B down-regulating peptide;
KW immune response.
XX
OS Synthetic.
XX
PN US2003219425-A1.
XX
PD 27-NOV-2003.
XX
PF 08-APR-2003; 2003US-00409027.
XX
PR 21-DEC-2001; 2001US-00028075.
XX
PA (KHAN/) KHAN N A.
XX
PA (BENN/) BENNER R.
XX
PA (YZER/) YZERMAN J N M.
XX
PI Khan NA, Benner R, Yzermans JNM;
XX
PI WPI; 2004-089275/09.
XX
PT Modulation of transplant survival in recipient of transplant comprises
PT providing transplant with gene-regulatory peptide or functional analog.
PS Example; SEQ ID NO 2; 18pp; English.
XX

XX The invention describes a method of modulating transplant survival in a
 CC recipient of the transplant comprising providing the transplant with a
 CC gene-regulatory peptide or its functional analogue. Also described is a
 CC hyperonc pharmaceutical composition comprising NF-kappaB down-
 CC regulating peptide or its functional analogue. The invention prevents and
 CC treats rejection, particularly chronic rejection, of a transplant by a
 CC recipient of the transplant. This is the amino acid sequence of a
 CC necrosis factor kappa B (NFkB) down-regulating peptide used to modify the
 CC immune response and treat transplant rejection.
 XX
 SQ Sequence 4 AA;
 QY
 Db 1 AOGV 4
 1 AOGV 4
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Query Match 100.0%; Score 19; DB 8; Length 4;
 Best Local Similarity 100.0%; Pred. No. 2e+06;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 RESULT 12
 ADG73593 standard; peptide; 4 AA.
 XX
 AC ADG73593;
 XX
 DT 11-MAR-2004 (first entry)
 XX
 DE NF-kappaB gene-regulatory peptide #2.
 XX
 KW Immunosuppressive state; nuclear factor-kappaB; NF-kappaB;
 KW gene-regulatory peptide; disseminated intravascular coagulation; trauma;
 KW counter anti-inflammatory response syndrome; upregulation;
 KW anti-inflammatory response; interleukin-10; IL-10;
 KW pro-inflammatory response; tumour necrosis factor-alpha; TNF-alpha;
 KW nitric oxide; interleukin-5; IL-5; interleukin-1beta; IL-1beta;
 KW anticoagulation.
 XX
 OS Unidentified.
 XX
 PN US2003220257-A1.
 XX
 PD 27-NOV-2003.
 XX
 PF 08-APR-2003; 2003US-00409032.
 XX
 PR 21-DEC-2001; 2001US-00028075.
 XX
 PA (BENN/) BENNER R.
 PA (KHAN/) KHAN N A.
 XX
 PI Benner R, Khan NA;
 XX
 DR WPI; 2004-069536/07.
 XX
 PT Modulating or treating immunosuppressive state in subject involves
 PT providing the subject with a gene-regulatory peptide or its functional
 PT analogue.
 XX
 PS Example; SEQ ID NO 2; 14pp; English.
 XX
 CC The present invention relates to a method for modulating or treating
 CC immunosuppressive states in a subject. The method involves providing the
 CC subject with a nuclear factor-kappaB (NF-kappaB) gene-regulatory peptide
 CC or its functional analogue. Also disclosed is a pharmaceutical
 CC composition comprising an NF-kappaB up-regulating peptide or its
 CC functional analogue, and an agent directed against disseminated
 CC intravascular coagulation. The method of the invention is useful for
 CC modulating or treating immunosuppressive state in a subject that has
 CC experienced trauma or is at risk of suffering a counter anti-inflammatory
 CC response syndrome. The invention allows the upregulation of anti-

CC inflammatory responses such as interleukin-10 (IL-10), and the
 CC downregulation of pro-inflammatory responses such as those mediated by
 CC tumour necrosis factor-alpha (TNF-alpha), nitric oxide, IL-5, and IL-
 CC 1beta. The present sequence represents a NF-kappaB gene-regulatory
 CC peptide.
 XX
 SQ Sequence 4 AA;
 QY
 Db 1 AOGV 4
 1 AOGV 4
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Query Match 100.0%; Score 19; DB 8; Length 4;
 Best Local Similarity 100.0%; Pred. No. 2e+06;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 RESULT 13
 ADG86561 standard; peptide; 4 AA.
 XX
 AC ADG86561;
 XX
 DT 11-MAR-2004 (first entry)
 XX
 DE NF-kappaB gene-regulatory peptide #2.
 XX
 KW Nuclear factor-kappaB; NF-kappaB; gene-regulatory peptide;
 KW conjunctivitis; dry eye; immunosuppression; down-regulation;
 KW inflammatory pathway; NF-kappaB/Rel family; ophthalmological;
 KW immunosuppressive.
 XX
 OS Unidentified.
 XX
 PN US2003220260-A1.
 XX
 PD 27-NOV-2003.
 XX
 PF 08-APR-2003; 2003US-00409659.
 XX
 PR 21-DEC-2001; 2001US-00028075.
 XX
 PA (KHAN/) KHAN N A.
 PA (BENN/) BENNER R.
 XX
 PI Khan NA, Benner R;
 XX
 DR WPI; 2004-097357/10.
 XX
 PT Pharmaceutical composition for topical application used to treat
 PT conjunctivitis and to modulate immunosuppression, comprises gene-
 PT regulatory peptide or its functional analogue.
 XX
 PS Example; SEQ ID NO 2; 20pp; English.
 XX
 CC The present invention relates to a method for modulating or treating a
 CC variety of diseases in a subject. The method involves providing the
 CC subject with a nuclear factor-kappaB (NF-kappaB) gene-regulatory peptide
 CC or its functional analogue. The method of the invention is useful for
 CC modulating NF-kappaB. The method may be used to treated conjunctivitis
 CC for the treatment of dry eyes. It is also used to modulate
 CC immunosuppression. The invention is capable of down-regulating
 CC inflammatory pathways. It is also capable of modulating the transcripion
 CC of genes that are under the control of NF-kappaB/Rel family of factors.
 CC The present sequence represents a NF-kappaB gene-regulatory peptide.
 XX
 SQ Sequence 4 AA;
 QY
 Db 1 AOGV 4
 1 AOGV 4
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Query Match 100.0%; Score 19; DB 8; Length 4;
 Best Local Similarity 100.0%; Pred. No. 2e+06;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 AOGV 4

RESULT 14

AD120991 standard; peptide; 4 AA.

AD120991;

22-APR-2004 (first entry)

Human nuclear factor kappa B (NFkappaB) gene regulatory peptide #2.

Human; nuclear factor kappa B; NFkappaB; gene regulatory peptide; hCG;

human chorionic gonadotrophin; inflammatory cytokine;

neurological disorder; schizophrenia; manic depression; bipolar disorder;

multiple sclerosis; post-partum psychosis; autism;

chronic fatigue syndrome; fibromyalgia; Alzheimer's disease;

mood disorder; stress; transcription factor; Rel protein;

cell-mediated immunity; IL-10; tumour necrosis factor; nitric oxide;

IL-5; IL-6; IL-1beta.

Homo sapiens.

US2003220259-A1.

27-NOV-2003.

08-APR-2003; 2003US-00409654.

21-DEC-2001; 2001US-00028075.

(BENN/) BENNER R.

(KHAN/) KHAN N A.

(WENS/) WENSVOORT G.

Benner R, Khan NA, Wensvoort G;

WPI; 2004-097356/10.

Modulating neurological disorder in a subject involves providing the

subject with a gene-regulatory peptide or its functional analogue.

Example; Page 5; 11pp; English.

The invention relates to modulating a neurological disorder in a subject

involves providing the subject with a gene-regulatory peptide or its

functional analogue (e.g. those derived from human chorionic

gonadotrophin, produced during pregnancy and thought to regulate pro-

inflammatory cytokine production via regulation of NF-kappaB (nuclear

factor kappa B). The gene regulatory peptide or its functional analogue

down-regulates translocation and/or activity, of a gene transcription

factor (comprises NF-kappaB/Rel protein). The invention is used for

modulating a neurological disorder (such as in a subject that presents

clinical signs of autism, e.g. schizophrenia, manic depression and other

bipolar disorders, multiple sclerosis, postpartum psychosis, autism,

chronic fatigue syndrome, fibromyalgia, Alzheimer's, mood disorders, and

certain form of stress. The invention reduces the frequency and limits

the lasting effects of psychological manifestations of neuroimmune

disease. It counters the involvement of cell-mediated immunity in the

etiology of neurologic disease. It allows up-regulating anti-inflammatory

responses such as IL-10, and downregulating pro-inflammatory responses

such as mediated by tumour necrosis factor (TNF)-alpha, nitric oxide, IL-

5, IL-6 and IL-1beta. The present sequence is a gene regulating peptide

of the invention.

Sequence 4 AA;

Query Match 100.0%; Score 19; DB 8; Length 4;

Best Local Similarity 100.0%; Pred. No. 2e+06;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AOGV 4

RESULT 15

AD116437 standard; peptide; 4 AA.

AD116437;

22-APR-2004 (first entry)

NF-kappaB down-regulating peptide, SEQ ID NO 2.

burn injury; gene-regulatory; NF-kappaB down-regulating peptide;

disseminated intravascular coagulation; bacteriostatic; silver;

hypocotonic; burn.

Unidentified.

US2003224995-A1.

04-DEC-2003.

08-APR-2003; 2003US-00409694.

21-DEC-2001; 2001US-00028075.

(KHAN/) KHAN N A.

(WENS/) WENSVOORT G.

(BENN/) BENNER R.

Khan NA, Wensvoort G, Benner R;

WPI; 2004-033998/03.

Modulating burn injury in subject, comprises providing gene-regulatory

peptide or its analog to subject.

Example; SEQ ID NO 2; 17pp; English.

The invention relates to a novel method for modulating burn injury in a

subject. The method involves providing a gene-regulatory peptide or its

analogue to the subject. The invention further relates to: a

pharmaceutical composition comprising an NF-kappaB down-regulating

peptide or its functional analogue, and an agent directed against

disseminated intravascular coagulation, or a bacteriostatic compound

comprising silver; a hypotonic pharmaceutical composition comprising an

NF-kappaB down-regulating peptide or its functional analogue; and a

method for treating a subject suffering from a burn, involving providing

the subject with a sufficient amount of a gene-regulatory peptide to down

-regulate translocation and/or activity of NF-kappaB/Rel protein and

further providing an agent having activated protein C activity and

directed against disseminated intravascular coagulation. This sequence

represents an NF-kappaB down-regulating peptide to be used in a

pharmaceutical composition of the invention.

Sequence 4 AA;

Query Match 100.0%; Score 19; DB 8; Length 4;

Best Local Similarity 100.0%; Pred. No. 2e+06;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AOGV 4

Db 1 AOGV 4

RESULT 16

ADK42374 standard; peptide; 4 AA.

ADK42374

ID ADK42374

AC ADK42374;
 XX
 DT 20-MAY-2004 (first entry)
 XX
 DE Antibacterial peptide from pHP #135.
 XX
 KW Pig; heparin binding protein; HBP; neutrophil elastase; antibacterial;
 KW cytokine IL-6; monocyte; bacterial infection; sepsis; septic shock;
 KW disseminated intravascular coagulation; meningococcal meningitis;
 KW pneumococcal pneumonia; inflammatory response; cell apoptosis;
 KW suppressed immune system; cancer; autoimmune diseases; trauma.
 XX
 OS Sus scrofa.
 XX
 PN WO2004016653-A2.
 XX
 PD 26-FEB-2004.
 XX
 PF 14-AUG-2003; 2003WO-DK000542.
 XX
 PR 15-AUG-2002; 2002DK-00001212.
 XX 19-AUG-2002; 2002US-0404155P.
 PR 27-JUN-2003; 2003DK-00000987.
 XX
 PA (LEUK-) LEUKETOCH AS.
 XX
 PI Djurup R, Flodgaard HJ, Norris K;
 XX WPI; 2004-257185/24.
 XX
 DR
 XX
 PT New peptides of heparin-binding protein and/or human neutrophil elastase
 PT for manufacturing a medicament for the treatment of e.g. bacterial
 PT infections, disseminated intravascular coagulation, cancer or autoimmune
 PT diseases.
 XX
 PS Claim 52; SEQ ID NO 356; 21pp; English.
 XX
 CC The invention relates to an antibacterial peptide conforming to the
 CC generic peptide sequence appearing as ADK42632, the motif being derived
 CC from analysis of the protein sequences of human heparin binding protein,
 CC hHBP, pig pHP and human neutrophil elastase (hNLE). Also included are a
 CC process for producing the new peptide (comprising providing an expression
 CC vector containing a DNA sequence encoding one or more of the above-
 CC mentioned amino acid sequences, transforming host cells with the above-
 CC culturing the transformed host cells and purifying the expressed peptide)
 CC and a pharmaceutical composition comprising the new peptide. The peptide
 CC is capable of inhibiting or stimulating the secretion of cytokine IL-6
 CC from monocytes. The peptides are useful in manufacturing a medicament for
 CC the treatment of Gram-negative or Gram-positive bacterial infection, such
 CC as sepsis, severe sepsis, septic shock, disseminated intravascular
 CC coagulation, meningococcal meningitis or pneumococcal pneumonia. These
 CC may also be used in manufacturing a medicament for the stimulation or
 CC inhibition of inflammatory response, for the prevention of cell
 CC apoptosis, or for the treatment of individuals having suppressed immune
 CC system, cancer, autoimmune diseases and/or trauma. The present sequence
 CC represents an antibacterial peptide of the invention derived from pig
 CC HBP.
 XX
 SQ Sequence 4 AA;
 XX
 Query Match 100.0%; Score 19; DB 8; Length 4;
 Best Local Similarity 100.0%; Pred. No. 2e+06;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 17
 ADM48491
 ID ADM48491 standard; peptide; 4 AA.
 XX

AC ADM48491;
 XX
 DT 03-JUN-2004 (first entry)
 XX
 DE NF-kappaB down-regulating peptide #2.
 XX
 KW Multiple sclerosis; MS; gene-regulatory peptide; NF-kappaB.
 XX
 OS Unidentified.
 XX
 PN US2003215434-A1.
 XX
 PD 20-NOV-2003.
 XX
 PF 08-APR-2003; 2003US-00409630.
 XX
 PR 21-DEC-2001; 2001US-00028075.
 XX
 PA (KHAN/) KHAN N A.
 XX (BENN/) BENNER R.
 XX
 PI Khan NA, Benner R;
 XX WPI; 2004-080670/08.
 XX
 DR
 XX
 PT Modulation of relapsing/remitting disease in subject suffering from
 PT multiple sclerosis, by providing the subject with gene-regulatory peptide
 PT or its functional analogues.
 XX
 PS Example; Page 4; 11pp; English.
 XX
 CC The invention relates to a method for modulating relapsing/remitting
 CC disease in subject suffering from multiple sclerosis (MS), by providing
 CC the subject with gene-regulatory peptide or its functional analogues. The
 CC gene-regulatory peptide or its functional analogue has NF-kappaB down-
 CC regulating activity in LPS (sic) stimulated RAW264.7 cells. The method is
 CC useful for modulating relapsing/remitting disease in subject suffering
 CC from multiple sclerosis. The present sequence is a NF-kappaB down-
 CC regulating peptide. This sequence is used to illustrate the method of the
 CC invention.
 XX
 SQ Sequence 4 AA;
 XX
 Query Match 100.0%; Score 19; DB 8; Length 4;
 Best Local Similarity 100.0%; Pred. No. 2e+06;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 18
 ADO15345
 ID ADO15345 standard; peptide; 4 AA.
 XX
 AC ADO15345;
 XX
 DT 01-JUL-2004 (first entry)
 XX
 DE Nuclear factor-kappaB down-regulating peptide #2.
 XX
 KW Inflammatory condition; counter-inflammatory condition;
 KW gene-regulatory peptide; pro-inflammatory cytokine;
 KW tumour necrosis factor-alpha; interferon-gamma; interleukin-1beta;
 KW interleukin-6; counter-inflammatory cytokine; interleukin-4;
 KW interleukin-10; HLA-DR expression; circulating monocyte;
 KW arachidonic acid metabolite; plasma prostaglandin.
 XX
 OS Unidentified.
 XX
 PN US2004013661-A1.
 XX

PD 22-JAN-2004.
 XX 08-APR-2003; 2003US-00409657.
 XX 21-DEC-2001; 2001US-00028075.
 XX (WENS/) WENVOORT G.
 PA (KHAN/) KHAN N A.
 PA (BENN/) BENNER R.
 XX Wensvoort G, Khan NA, Benner R;
 XX WPI; 2004-108189/11.
 DR
 XX
 XX Treating subject suffering from inflammatory and/or counter-inflammatory
 PT condition, by determining disease stage using diagnostic process,
 PT providing gene-regulatory peptide to subject depending on disease stage.
 XX Example; Page 6; 14pp; English.
 PS
 XX The invention relates to treating a subject suffering from inflammatory
 CC and/or counter-inflammatory condition, involves determining subject's
 CC inflammatory disease stage using diagnostic process, and providing
 CC subject with gene-regulatory peptide or its functional analogue depending
 CC on the outcome of determination of disease stage. The diagnostic process
 CC includes determining the level of a pro-inflammatory cytokine in a sample
 CC taken from a patient (where the pro-inflammatory cytokine is chosen from
 CC tumour necrosis factor-alpha, interferon-gamma, interleukin-1beta,
 CC interleukin-6, and its combination), determining the level of a counter-
 CC inflammatory cytokine (e.g., interleukin-4 or interleukin-10),
 CC determining HLA-DR expression on circulating monocytes, determining
 CC arachidonic acid metabolite levels and determining plasma prostaglandin
 CC levels (a ratio between prostaglandins 1 and 2) in the subject. The gene-
 CC regulatory peptide or its functional analogue down-regulates (for an
 CC inflammatory condition) or up-regulates (for a counter-inflammatory
 CC condition) translocation activity, or translocation and activity of pro-
 CC inflammatory cytokine gene expression mediated by a gene transcription
 CC factor (NF-kappaB/Rel protein). The method is useful for treating subject
 CC suffering from inflammatory and/or counter-inflammatory condition. The
 CC present sequence is a NF-kappaB/Rel down-regulating peptide.
 XX
 XX Sequence 4 AA;
 SQ
 Query Match 100.0%; Score 19; DB 8; Length 4;
 Best Local Similarity 100.0%; Pred. No. 2e+06;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 ACGV 4
 DB 1 ACGV 4
 RESULT 19
 ADT08600 standard; peptide; 4 AA.
 XX
 XX ADT08600;
 AC
 XX 30-DEC-2004 (first entry)
 DT
 XX Human chorionic gonadotropin related peptide #2.
 DE
 XX Antiinflammatory; Nuclear factor kappa B; NF-kappaB; human;
 KM chorionic gonadotropin; hCG.
 KW
 XX Homo sapiens.
 OS
 XX EPI46611-A1.
 PN
 XX 13-OCT-2004.
 PD
 XX 08-APR-2003; 2003EP-00076022.
 PF
 XX

PR 08-APR-2003; 2003EP-00076022.
 XX (BIOT-) BIOTEMPT BV.
 PA WPI; 2004-749906/74.
 DR
 XX
 XX Modulating an iatrogenic event comprises providing the subject with a
 PT gene-regulatory peptide or its functional analogue, particularly an
 PT inhibitor of NF-kappaB/Rel translocation or activity.
 XX Example; Page 9; 16pp; English.
 PS
 XX The present invention relates to a method for modulating an iatrogenic
 CC event (i.e. an adverse event that results from medical treatment) in a
 CC subject. The method comprises providing the subject with a gene-
 CC regulatory peptide or its functional analogue, where the peptide or
 CC analogue inhibits the translocation and/or activity of a gene
 CC transcription factor such as Nuclear Factor (NF)-kappaB/ Rel protein or
 CC AP-1 protein. The iatrogenic event comprises destruction or lysis of a
 CC cell or tissue of the subject or of a pathogen hosted by the subject. The
 CC lysis is due to treatment of the subject with a pharmaceutical
 CC composition selected from antibiotics, vaccines, antibodies, anticoagulants,
 CC antibiotics, antitoxins, antibacterial agents, antiparasitic agents,
 CC antiprotzoic agents, antifungal agents, antiviral agents, cytolytic
 CC agents, cytostatic agents and thrombolytic agents. The lysis may be due
 CC to treatment of the subject with a virus comprising a lytic phase. The
 CC present sequence is one such gene-regulatory peptide used in the method
 CC of the invention which is derived from human chorionic gonadotropin
 CC (hCG). This peptide is a NF-kappaB down regulating peptide.
 XX
 XX Sequence 4 AA;
 SQ
 Query Match 100.0%; Score 19; DB 8; Length 4;
 Best Local Similarity 100.0%; Pred. No. 2e+06;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 ACGV 4
 DB 1 ACGV 4
 RESULT 20
 ADT08628 standard; peptide; 4 AA.
 XX
 XX ADT08628;
 AC
 XX 30-DEC-2004 (first entry)
 DT
 XX Human chorionic gonadotropin related peptide #2.
 DE
 XX Antiinflammatory; Antibacterial; Immunosuppressive; Immunostimulant;
 KM Immunomodulator; inflammatory disorder; Nuclear Factor kappaB; NF-kappaB;
 KW human; chorionic gonadotropin; hCG.
 XX
 XX Homo sapiens.
 OS
 XX EPI46612-A1.
 PN
 XX 13-OCT-2004.
 PD
 XX 08-APR-2003; 2003EP-00076023.
 PF
 XX 08-APR-2003; 2003EP-00076023.
 PR
 XX (BIOT-) BIOTEMPT BV.
 PA WPI; 2004-711295/70.
 DR
 XX
 XX Treating a subject suffering from an inflammatory or counter-inflammatory
 PT condition comprises subjecting the subject to a diagnostic process and
 PT administering an appropriate gene-regulatory peptide based on the
 PT results.

XX Example; Page 10; 20pp; English.

CC The present invention relates to a method for treating a subject
 CC suspected to suffer from an inflammatory and/or a counter-inflammatory
 CC condition. The method comprises subjecting the subject to a diagnostic
 CC process aimed at determining inflammatory disease stage and providing the
 CC subject with a gene-regulatory peptide or its functional analogue
 CC depending on the results of the diagnostic process. The diagnostic
 CC process includes determining the level of a pro-inflammatory cytokine,
 CC which is preferably selected from tumor necrosis factor-alpha, interferon
 CC -gamma, interleukin-1-beta and interleukin-6. The diagnostic process
 CC includes determining the level of a counter-inflammatory cytokine
 CC selected from interleukin-4 and interleukin-10. The diagnostic process
 CC preferably includes determining HLA-DR expression on circulating
 CC monocytes of the subject. The diagnostic process preferably includes
 CC determining arachidonic acid metabolite levels. The process preferably
 CC includes determining plasma prostaglandin levels, specifically
 CC determining a ratio between prostaglandins 1 and 2 (PGE1 and PGE2). The
 CC method comprises providing the subject with a gene-regulatory peptide or
 CC its functional analogue based on the determination of disease stage as an
 CC essentially inflammatory condition, where the gene-regulatory peptide
 CC down-regulates translocation and/or activity of pro-inflammatory cytokine
 CC gene expression mediated by a gene transcription factor. The
 CC transcription factor preferably comprises an Nuclear Factor (NF) -
 CC kappaB/Rel protein and the translocation and/or activity of the protein
 CC is inhibited. The peptide is preferably selected from peptides having NF-
 CC kappaB down-regulating activity in lipopolysaccharide (LPS) stimulated or
 CC unstimulated RAW264.7 cells. Inflammatory conditions that may be treated
 CC include systemic inflammatory response syndrome (SIRS) and sepsis.
 CC Counter-inflammatory conditions that may be treated include
 CC immunosuppression associated with major trauma. The present sequence is
 CC one such gene-regulatory peptide used in the method of the invention
 CC which is derived from human chorionic gonadotropin (hCG). This peptide is
 CC a NF-kappaB down regulating peptide.

XX Sequence 4 AA;

Query Match 100.0%; Score 19; DB 8; Length 4;
 Best Local Similarity 100.0%; Pred. No. 2e+06; 0;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AAGV 4
 ||||
 Db 1 AAGV 4

RESULT 21

ADT08656
 ID ADT08656 standard; peptide; 4 AA.

XX ADT08656;

DT 30-DEC-2004 (first entry)

XX Human chorionic gonadotropin related peptide #2.

XX Antinflammatory; Antidiabetic; Neuroprotective; Immunosuppressive;
 KW Dermatological; Antirheumatic; Antiarthritic; Antiallergic;
 KW Antiaesthetic; Antiparasitic; Virucide; Antibacterial;
 KW Nuclear Factor kappaB; NF-kappaB; inflammatory disorder; human;
 KW chorionic gonadotropin; hCG.

OS Homo sapiens.

XX EPI466613-A1.

PD 13-OCT-2004.

XX 08-APR-2003; 2003EP-00076030.

XX 08-APR-2003; 2003EP-00076030.

XX 08-APR-2003; 2003EP-00076030.

PA (BIOT-) BIOTEMPT BV.

XX WPI; 2004-711296/70.

PT Pharmaceutical composition useful for treating e.g. diabetes, multiple
 PT sclerosis comprises gene-regulatory peptide.

XX Example; Page 6; 29pp; English.

CC The present invention relates to novel pharmaceutical compositions
 CC comprising a gene-regulatory peptide, its functional analog and diluent.
 CC The gene-regulatory peptide modulates (preferably inhibits) translocation
 CC and gene transcription factor e.g. Nuclear Factor (NF)-kappaB/Rel
 CC protein; regulates expression of gene encoding an inflammatory mediator
 CC containing cytokine selected from TNF-alpha, TGF-beta, interferon gamma,
 CC IL-1beta, IL-4, IL-5, IL-6, IL-10, IL-12, IL-23 and IL-40. The
 CC compositions are useful for treating disease such as inflammatory disease
 CC such as chronic inflammation e.g. diabetes, multiple sclerosis, chronic
 CC transplant rejection, acute inflammation e.g. septic or anaphylactic
 CC shock, acute or hyper acute transplant rejection; autoimmune disease e.g.
 CC systemic lupus erythematosus or rheumatoid arthritis; allergy e.g. asthma
 CC or parasitic disease; overly strong immune response directed against an
 CC infectious agent e.g. virus or bacterium, systemically. The present
 CC sequence is one such gene-regulatory peptide used in the method of the
 CC invention which is derived from human chorionic gonadotropin (hCG).

XX Sequence 4 AA;

Query Match 100.0%; Score 19; DB 8; Length 4;
 Best Local Similarity 100.0%; Pred. No. 2e+06; 0;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AAGV 4
 ||||
 Db 1 AAGV 4

RESULT 22

ADT79351
 ID ADT79351 standard; peptide; 4 AA.

XX ADT79351;

DT 30-DEC-2004 (first entry)

XX Nuclear factor (NF)-kappaB up-regulating peptide #1.

XX Gene-regulatory peptide; chronic inflammatory disease; diabetes;
 KW multiple sclerosis; acute inflammation; septic shock; anaphylactic shock;
 KW transplant rejection; autoimmune disease; systemic lupus erythematosus;
 KW rheumatoid arthritis; allergic reaction; asthma; parasitic disease;
 KW immune response; antinflammatory; antidiabetic; neuroprotective;
 KW immunosuppressive; antibacterial; antiarthritic; dermatological;
 KW antirheumatic; antineumatic; antiallergic; antiparasitic;
 KW nuclear factor-kappaB; NF-kappaB.

OS Synthetic.

XX US2004202645-A1.

PD 14-OCT-2004.

XX 08-APR-2003; 2003US-00409668.

XX 08-APR-2003; 2003US-00409668.

XX (KHAN/) KHAN N A.

XX (BENNER/) BENNER R.

XX Khan NA, Benner R;

XX WPI; 2004-727977/71.

PT Composition, useful to treat e.g. acute/chronic inflammation, autoimmune
PT disease and an allergic reaction, comprises a gene-regulatory peptide or
PT its functional analogue together with a diluent.
XX
XX
XX Disclosure; SEQ ID NO 2; 28pp; English.
XX
XX The invention relates to a pharmaceutical composition comprising a gene-
XX regulatory peptide or its functional analogue together with a diluent.
XX The pharmaceutical composition is useful to systemically treat chronic
XX inflammatory disease (diabetes, multiple sclerosis or chronic transplant
XX rejection); acute inflammation (septic or anaphylactic shock or acute and
XX hyper acute transplant rejection); autoimmune disease (systemic lupus
XX erythematosus or rheumatoid arthritis); allergic reaction (asthma or
XX parasitic disease); and/or overly strong immune response directed against
XX an infectious agent (bacteria or virus) infecting the subject. The
XX present sequence is a nuclear factor (NF)-kappaB gene-regulatory peptide.
SQ Sequence 4 AA;
Query Match 100.0%; Score 19; DB 8; Length 4;
Best Local Similarity 100.0%; Pred. No. 2e+06; Mismatches 0; Gaps 0;
Matches 4; Conservative 0; Indels 0;
QY 1 ACGV 4
Db 1 ACGV 4
RESULT 23
ID ADT49387 standard; peptide: 4 AA.
XX
XX ADT49387;
XX
XX 13-JAN-2005 (first entry)
XX
XX Human chorionic gonadotropin derived peptide, NMPP-46.
XX
XX Immunomodulator; human chorionic gonadotropin; hCG; sepsis; shock;
XX septic shock; gene regulation; bone disease; osteoporosis; inflammation;
XX tissue damage; multiple organ failure; diabetes; insulinitis; glucosuria;
XX immune-mediated disorder; wasting syndrome; NMPP-46.
XX
XX Homo sapiens.
XX
XX OS
XX PN US2004208885-A1.
XX
XX 21-OCT-2004.
XX
XX 07-JAN-2004; 2004US-00753510.
XX
XX 03-MAR-2001; 2001WO-NL000259.
XX 21-DEC-2001; 2001US-00028075.
XX 30-SEP-2002; 2002US-00262522.
XX 10-APR-2003; 2002WO-NL000639.
XX
XX (KHAN/) KHAN N A.
XX (BENN/) BENNER R.
XX
XX Khan NA, Benner R;
XX
XX WPI; 2004-747166/73.
XX
XX Composition useful for treating e.g. a bone disease such as osteoporosis,
XX or sepsis, comprises a purified or isolated peptide that modulates
XX production of nitric oxide by a cell.
XX
XX Claim 11; SEQ ID NO 2; 50pp; English.
XX
XX The present invention relates to compounds exhibiting immunomodulatory
XX activity as determined by measuring the compounds ability to modulate
XX production of NO by a cell. In particular, the compounds include
XX oligopeptides derived from human chorionic gonadotropin (hCG), and with

CC the antigenic binding activity of hCG. The peptides comprise a small
CC amino acid segment of a larger sequence, defined in the specification, or
CC a derivative of the segment having one or more conservative
CC substitutions, and exhibiting an immunoregulatory activity. The
CC oligopeptides are useful in the treatment of sepsis, shock, septic shock,
CC tissue damage, multiple organ failure, diabetes, glucosuria, insulinitis,
CC immune-mediated disorder, wasting syndrome and have gene regulation
CC activities. The invention provides a method for the treatment of bone
CC disease such as osteoporosis, useful in post menopausal women that no
CC longer have a natural source of hCG and its breakdown products.
CC Immunomodulatory effects of the oligopeptides has been observed in T-cell
XX assays showing the inhibition of pathological Th1 immune responses.
XX suppression of inflammation cytokines (MIF), increase in antiinflammatory
XX cytokines (IL-10, TGF-beta) and immunomodulatory effects on antigen-
XX presenting cells, monocytes and macrophages. The present sequence is an
XX amino acid portion of a longer sequence derived from hCG, and is named as
XX NMPP-46 in the specification.
SQ Sequence 4 AA;
Query Match 100.0%; Score 19; DB 8; Length 4;
Best Local Similarity 100.0%; Pred. No. 2e+06; Mismatches 0; Gaps 0;
Matches 4; Conservative 0; Indels 0;
QY 1 ACGV 4
Db 1 ACGV 4
RESULT 24
ID ADU46871 standard; peptide: 4 AA.
XX
XX ADU46871;
XX
XX 27-JAN-2005 (first entry)
XX
XX Gene regulatory peptide for treatment of immune-related disorder.
XX
XX Gene regulation; human chorionic gonadotropin; antiinflammatory;
XX antidiabetic; neuroprotective; immunosuppressive; dermatological;
XX antirheumatic; antiarthritic; antiallergic; antistomatitic; antiparasitic;
XX gynecological; nuclear factor kappa B.
XX
XX Synthetic.
XX
XX OS
XX PN WO2004093897-A1.
XX
XX 04-NOV-2004.
XX
XX 08-APR-2004; 2004WO-EP003747.
XX
XX 08-APR-2003; 2003EP-00076021.
XX 08-APR-2003; 2003EP-00076022.
XX 08-APR-2003; 2003EP-00076023.
XX 08-APR-2003; 2003EP-00076024.
XX 08-APR-2003; 2003EP-00076025.
XX 08-APR-2003; 2003EP-00076026.
XX 08-APR-2003; 2003EP-00076027.
XX 08-APR-2003; 2003EP-00076028.
XX 08-APR-2003; 2003EP-00076029.
XX 08-APR-2003; 2003EP-00076030.
XX 08-APR-2003; 2003US-00409671.
XX 30-APR-2003; 2003CN-00131227.
XX
XX (BIOT-) BIOTEMPI BV.
XX
XX Khan NA, Benner R, Wensvoort G;
XX
XX WPI; 2004-784832/77.
XX
XX A pharmaceutical composition for mucosal or oral treatment of immune-
XX mediated disorders (e.g. allergy, transplant disorders or inflammatory
XX

PT diseases) comprises an amount of a gene-regulatory peptide and a
PT pharmaceutical diluent.

PS Example; SEQ ID NO 2; 95pp; English.

XX
XX The present sequence is that of a nuclear factor kappa B (NFkB)
CC regulating peptide that is an example of gene regulatory peptides of the
CC invention. The invention provides the treatment of a disease by mucosal,
CC preferably oral, administration of a pharmaceutical composition
CC comprising a gene regulatory peptide obtained or derived from human
CC chorionic gonadotropin (hCG) in order to generate systemic modulation of
CC the expression of a gene. Such peptides are present naturally in pregnant
CC women and are derived from proteolytic breakdown of placental
CC gonadotropins such as hCG produced during pregnancy. However, synthetic
CC variants and modifications of these peptides having equivalent activity
CC can be synthesized and tested for activity using e.g. NOD mice.
CC Pharmaceutical compositions comprising gene regulatory peptides of the
CC invention can be used to treat an inflammatory disease such as: a disease
CC comprising chronic inflammation, such as diabetes, multiple sclerosis or
CC chronic transplant rejection; acute inflammation such as septic or
CC anaphylactic shock or acute or hyper-acute transplant rejection; an
CC autoimmune disease such as systemic lupus erythematosus or rheumatoid
CC arthritis; an allergy such as asthma or parasitic disease; or an overly
CC strong immune response directed against an infectious agent (all
CC claimed). The gene regulatory peptides modulate the translocation and/or
CC activity of a gene transcription factor, especially they inhibit NFkB/Rel
CC protein or regulate expression of an inflammatory mediator such as a
CC cytokine. The present peptide is a NFkB down-regulating peptide, and was
CC shown to modulate the translocation of NFkB into the nucleus of RAW264.7
CC macrophages. It can be produced by solid-phase synthesis. The peptide is
CC preferred for oral administration, and is preferred for use in the
CC treatment of a neurological disorder, a relapsing/remitting disease such
CC as multiple sclerosis, diabetes, or a menopausal, post-menopausal or
CC osteoporosis condition, and can be added to transplant preservation fluid
CC or transplant perfusion fluid. It is the most preferred peptide for oral
CC treatment of reperfusion injury.

XX
SQ Sequence 4 AA;

Query Match 100.0%; Score 19; DB 8; Length 4;

Best Local Similarity 100.0%; Pred. No. 2e+06; Mismatches 0; Indels 0; Gaps 0;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
|||
1 ACGV 4

DB 1 ACGV 4

RESULT 25
ADY03875

ID ADY03875 standard; peptide; 4 AA.

AC ADY03875;

DT 05-MAY-2005 (first entry)

DE Peptide database creation method peptide #2.

XX peptide library; peptide mapping; gonadotropin; tumor necrosis factor;
XX interleukin; interferon.

OS Synthetic.

XX US2005037430-A1.

XX 17-FEB-2005.

XX 08-APR-2004; 2004US-00821240.

XX 29-MAR-2000; 2000EP-00201139.

XX 03-MAR-2001; 2001WO-NL000259.
PR 04-OCT-2001; 2001EP-00203748.
PR 21-DEC-2001; 2001US-00028075.

PR 30-SEP-2002; 2002US-00262522.
PR 10-APR-2003; 2002WO-NL000639.
PR 07-JAN-2004; 2004US-00753510.

XX (BIOT-) BIOTEMPT BV.

XX Khan NA, Benner R;

XX WPI; 2005-172262/18.

XX
XX Creating a peptide database, involves screening peptides to determine
PT activity of peptide, analyzing physical, chemical, or biological property
PT of peptides, recording properties of all peptides in peptide database.

PS Disclosure; SEQ ID NO 2; 95pp; English.

XX The invention relates to a method of creating (M1) a peptide database, by
CC providing a first source of peptides, screening a peptide to determine
CC the activity of the peptide, analyzing the results, characterizing a
CC physical, chemical, or biological property of the peptides, recording in
CC a peptide database the characteristics of all peptides, recording in the
CC peptide database results of analysis of the peptides, thus generating a
CC database or part of a database of peptides. (M1) is useful for creating a
CC peptide database. The peptides are related to gonadotropin, especially
CC human chorionic gonadotropin. Analyzing the peptides comprises analyzing
CC an anti-shock effect, analyzing TNF-alpha, analyzing effect of peptide on
CC angiogenesis, analyzing a condition associated with a dysfunctional LDL
CC receptor or analyzing the effect of the peptide on at least one
CC inflammatory mediator chosen from IL-1-alpha, IL-1-beta, IL-6, TNF-alpha,
CC LIF, IFN-gamma, OSM, GM-CSF, IL-11, IL-12, IL-17, IL-18 and IL-8.
CC The peptides are related to beta-catenin, C-reactive protein, matrix
CC metalloproteinase-2 or Bruton's tyrosine kinase. (M1) is useful for
CC assaying several peptides by ex vivo, in vivo, and animal assays, thus
CC allowing for rational design of molecular mixtures that better alleviate
CC the symptoms of certain diseases. This sequence corresponds to a peptide
CC of the invention.

XX
SQ Sequence 4 AA;

Query Match 100.0%; Score 19; DB 9; Length 4;

Best Local Similarity 100.0%; Pred. No. 2e+06; Mismatches 0; Indels 0; Gaps 0;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
|||
1 ACGV 4

DB 1 ACGV 4

RESULT 26
ADY82494

ID ADY82494 standard; peptide; 4 AA.

AC ADY82494;

DT 16-JUN-2005 (first entry)

DE Forcine heparin binding protein (HBP) antigenic peptide, SEQ ID 356.

XX Antibacterial; Antiinflammatory; inflammation; Cytostatic; Vulnerary;
XX Anticoagulant; Heparin binding agent antagonist; Bacterial infection;
XX infection; cancer; cytostatic; neoplasm; trauma; injury;
XX autoimmune disease; immunosuppressive; immune disorder;
XX bacterial meningitis; meningitis; neuroprotective; neurological disease;
XX heparin binding protein; HBP; monoclonal antibody; antibody production;
XX antigen; disseminated intravascular coagulation; hematological disease.

XX Sus sp.

XX WO2005028512-A1.

XX 31-MAR-2005.

XX 17-SEP-2004; 2004WO-DK000634.

XX	PR	19-SEP-2003; 2003DK-00001369.
XX	PA	(LEUK-) LEUKOTEC AS.
XX	P1	Djunup R, Flodgaard HJ, Norris K,
XX	DR	WPI, 2005-254117/26.
XX	PT	New pro-inflammatory monoclonal antibody produced by clone P19A5B1 or
XX	PT	P19A5B4, for stimulating or inhibiting an inflammatory response, or for
XX	XX	treating sepsis, septic shock, or disseminated intravascular coagulation.
XX	XX	Disclosure: SEQ ID NO 356; 193bp; English.
XX	XX	The invention relates to a pro-inflammatory monoclonal antibody produced
CC	CC	by clone P19A5B1 (ECCAC Ass. No. 03090301) and an anti-inflammatory
CC	CC	monoclonal antibody, P19A5B4 (ECCAC Ass. No. 03090302). Also described is
CC	CC	a pharmaceutical composition for modulating at least one inflammatory
CC	CC	response associated with human heparin binding protein (hBHP). The
CC	CC	composition comprises an antibody against hBHP, or a fragment of the
CC	CC	antibody, or an antibody against a homolog of hBHP, or a fragment of the
CC	CC	antibody, where the antibody is capable of binding to an epitope within
CC	CC	hBHP. The hBHP homolog is porcine heparin binding protein (pBHP) and/or
CC	CC	human neutrophil elastase (HNE). The antibody is a pro-inflammatory
CC	CC	antibody capable of stimulating at least one inflammatory response in the
CC	CC	absence of bacterial products in the blood, or capable of stimulating at
CC	CC	least one inflammatory response in synergistic action with bacterial
CC	CC	products present in the blood. It is also capable of stimulating the
CC	CC	synthesis and/or release of cytokine IL-6. The antibody is also an anti-
CC	CC	inflammatory antibody capable of inhibiting at least one inflammatory
CC	CC	response in the absence or presence of bacterial products in the blood.
CC	CC	The pharmaceutical composition is useful for the stimulation and/or
CC	CC	inhibition of inflammatory response to bacterial infection, where the
CC	CC	infection is a Gram-negative or a Gram-positive bacterial infection. The
CC	CC	infection is by <i>Pneumococcus pneumoniae</i> . It is also associated with
CC	CC	sepsis, severe sepsis, septic shock, and/or disseminated intravascular
CC	CC	coagulation and meningitis, preferably meningococcal meningitis. The
CC	CC	antibody P19A5B1 is also useful for the manufacture of a medicament for
CC	CC	treatment of individuals having suppressed immune system, cancer,
CC	CC	autoimmune diseases, and/or trauma. It is also useful for the manufacture
CC	CC	of a medicament for treatment of individuals to suppress a sustained
CC	CC	inflammatory response. The present sequence represents a porcine heparin
CC	CC	binding protein (pBHP) peptide fragment used to produce the monoclonal
CC	CC	antibodies of the invention.
SO	SO	Sequence 4 AA.
		Query Match 100.0%; Score 19; DB 9; Length 4;
		Best Local Similarity 100.0%; Pred. No. 2e+06;
		Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0
QY	QY	1 AAGV 4
DB	DB	1 AAGV 4
RESULT 27		
AE27819	ID	AE27819 standard; peptide; 4 AA.
XX	XX	AE27819;
XX	XX	28-JUL-2005 (first entry)
DE	DE	Gene-regulatory peptide used for treatment of SARS infection.
XX	XX	Severe acute respiratory syndrome; SARS coronavirus infection;
KW	KW	respiratory disease; respiratory-gen.; virulide.
XX	XX	Homo sapiens.
OS	OS	MO2005046569-A2.
FN	FN	

XX		26-MAY-2005.	
XD			
XX			
PX	08-APR-2004;	2004WO-US010872.	
XX			
PR	08-APR-2003;	2003EP-00076021.	
PR	08-APR-2003;	2003EP-00076022.	
PR	08-APR-2003;	2003EP-00076023.	
PR	08-APR-2003;	2003EP-00076024.	
PR	08-APR-2003;	2003EP-00076025.	
PR	08-APR-2003;	2003EP-00076026.	
PR	08-APR-2003;	2003EP-00076027.	
PR	08-APR-2003;	2003EP-00076028.	
PR	08-APR-2003;	2003EP-00076029.	
PR	08-APR-2003;	2003EP-00076030.	
PR	08-APR-2003;	2003US-00409671.	
PR	30-APR-2003;	2003CN-00131227.	
XX			
PA	(BIOT-) BIOTEMPT BV.		
XX			
PI	Khan NA, Benner R, Mensvoort G, Galpin JE;		
XX			
DR	WPI; 2005-386191/39.		
XX			
PT	Use of gene-regulatory peptide for producing a pharmaceutical composition		
PT	for the treatment of severe acute respiratory syndrome.		
XX			
PS	Claim 10; SEQ ID NO 2; 68pp; English.		
XX			
CC	The present sequence is that of a gene-regulatory peptide of the		
CC	invention that can be used in the production of a pharmaceutical		
CC	composition for the treatment of a subject suffering from, or believed to		
CC	be suffering from, severe acute respiratory syndrome (SARS) caused by the		
CC	SARS coronavirus infection. The subject may be suffering from a late		
CC	phase and possibly lethal course of SARS characterized by elevated		
CC	lactate dehydrogenase levels, elevated creatine kinase levels,		
CC	neutrophilia, thrombocytopenia, elevated prothrombin time, migratory		
CC	pneumonia and/or hypoxia. Peptides of the invention may be obtained from		
CC	the urine of a pregnant woman, especially a woman in the first trimester		
CC	of pregnancy, or from a gonadotropin preparation comprising human		
CC	chorionic gonadotropin (hCG), or (in the present case) by chemical		
CC	synthesis. A preferred composition includes the present peptide and 2		
CC	others: ABA27818 and ABA27822. The peptide is a nuclear factor kappa B		
CC	inducing kinase down-regulating peptide.		
XX			
SQ	Sequence 4 AA:		
	Query Match	100.0%;	Score 19; DB 9; Length 4;
	Best Local Similarity	100.0%;	Pred. No. 2e+06;
	Matches 4; Conservative	0;	Mismatches 0; Indels 0; Gaps 0
OY	1 AGGV 4		
Db	1 AGGV 4		
RESULT 28			
ABU11098			
ID	ABU11098 standard; peptide; 9 AA.		
XX			
AC	ABU11098;		
XX			
DT	05-FEB-2003 (first entry)		
XX			
DB	House dust mite Der p1 antigen peptide #21.		
XX			
KW	House dust mite; Der p1 antigen; human CD8 cell epitope; allergy;		
XX	immune response; atopic patient; CD8+ T-cell epitope; anti-allergic.		
OS	Dermatophagoides pteronyssinus.		
XX			
PN	WO200281512-A1.		
XX			

PD 17-OCT-2002.
 XX
 PF 03-APR-2002; 2002MO-GB001534.
 XX
 PR 06-APR-2001; 2001GB-00008752.
 XX
 PA (ISIS-) ISIS INNOVATION LTD.
 XX
 PI Ogg G, Seneviratne S;
 XX
 DR WPI; 2003-058499/05.
 XX
 PT New peptide fragments of the Der p1 antigen of the house dust mite
 PT Dermatophagoides pteronyssinus contain a human CD8+ T cell epitope and
 PT are useful to treat and prevent allergy to the major house dust mite
 PT allergen.
 XX
 PS Disclosure; Page 31; 47pp; English.
 XX
 CC The present invention relates to house dust mite (Dermatophagoides
 CC pteronyssinus) Der p1 antigen peptides containing human CD8 cell
 CC epitopes. The peptides of the invention are useful in the treatment of
 CC human or animal patients, particularly to raise an immune response to the
 CC Der p1 antigen. They are useful in the treatment and prevention of
 CC allergies to the major house dust mite antigen, and to monitor disease
 CC activity in atopic patients. ABU1078-ABU1146 represent house dust mite
 CC Der p1 antigen peptides containing CD8+ T-cell epitopes
 XX
 SQ Sequence 9 AA;

Query Match 100.0%; Score 19; DB 6; Length 9;
 Best Local Similarity 100.0%; Pred. No. 2e+06;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AOGV 4
 ||||
 Db 4 AOGV 7

RESULT 29
 AD250681
 ID AD250681 standard; peptide; 9 AA.
 XX
 AC AD250681;
 XX
 DT 14-JUL-2005 (first entry)
 XX
 DE Y. pestis cytotoxic T-cell epitope SEQ ID 749.
 XX
 KW Yersinia pestis infection; antibacterial; infection; epitope; T-cell;
 KW vaccine; biological warfare.
 XX
 OS Yersinia pestis.
 XX
 PN WO2005037855-A2.
 XX
 PD 28-APR-2005.
 XX
 PF 15-OCT-2004; 2004MO-US033883.
 XX
 PR 17-OCT-2003; 2003US-0511653P.
 XX
 PA (PECO-) PECOS LABS INC.
 XX
 PI Lund O, Lundegaard C, Nielsen M, Morning P, Deans RJ, Buus S;
 PI Brunak S;
 XX
 DR WPI; 2005-315677/32.
 XX
 PT New cytotoxic Yersinia pestis T-cell epitope comprising 10 amino acids,
 PT useful as a vaccine or diagnostic tool and for inducing immune response
 PT in a subject.
 XX

PS Claim 1; SEQ ID NO 749; 235pp; English.
 XX
 CC The invention relates to a cytotoxic Yersinia pestis T-cell epitope,
 CC selected from any of the 1000 sequences of 9 amino acids appearing as
 CC AD249933-AD250932. Also included are predicting peptides that are
 CC epitopes or can be used as diagnostic tools (comprising predicting which
 CC peptides bind to a MHC molecule (not defined) with high affinity using a
 CC neural network with at least one of the following features: some or all
 CC of the inputs to the neural networks are generated using a hidden Markov
 CC model; or some or all of the inputs are encoded by an amino acid
 CC substitution matrix; different from an identity matrix and a vaccine or
 CC diagnostic tool using a limited number such as at least 1, 2, 3, 4, 5, 8,
 CC 16, 32, 64, 128, 256, 512 of the peptides of AD249933-AD250932. In
 CC predicting peptides, the prediction of the neural network is combined
 CC with prediction or measurement of one of the following: proteasomal
 CC cleavage sites; MHC binding; presence of sequence or related sequence(s)
 CC in patent databases; TAP binding; gene or protein expression level;
 CC function of the protein; localization of the protein; and similarity to
 CC self proteins. The epitope is useful as a vaccine or diagnostic tool, and
 CC for inducing immune response in a subject (said immunity to Yersinia
 CC pestis infection, the causative agent of plague). The present sequence is
 CC a cytotoxic Yersinia pestis T-cell epitope of the invention.
 XX
 SQ Sequence 9 AA;

Query Match 100.0%; Score 19; DB 9; Length 9;
 Best Local Similarity 100.0%; Pred. No. 2e+06;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AOGV 4
 ||||
 Db 4 AOGV 7

RESULT 30
 AAG85717
 ID AAG85717 standard; peptide; 10 AA.
 XX
 AC AAG85717;
 XX
 DT 11-SEP-2001 (first entry)
 XX
 DE Saccharomyces cerevisiae peptide, SEQ ID NO: 666.
 XX
 KW Saccharomyces cerevisiae; complementary peptide; peptide identification;
 KW drug discovery; drug design.
 XX
 OS Saccharomyces cerevisiae.
 XX
 PN WO200142276-A1.
 XX
 PD 14-JUN-2001.
 XX
 PF 13-DEC-2000; 2000MO-GB004773.
 XX
 PR 13-DEC-1999; 99GB-00029471.
 XX
 PA (PROT-) PROTEOM LTD.
 XX
 PI Roberts GW, Heal JR;
 XX
 DR WPI; 2001-367863/38.
 XX
 PT Identifying complementary peptides by analysis of protein and nucleotide
 PT sequence databases, useful in drug design.
 XX
 PS Example 3; Page 121; 488pp; English.
 XX
 CC The invention relates to the identification of complementary peptides by
 CC analysis of protein and nucleotide sequence databases from higher
 CC eukaryotic genomes, excluding human and plants. The specific
 CC complementary peptides interact with their relevant target proteins
 CC encoded in the eukaryote genome. The peptides may be used as reagents and

CC drugs for drug discovery and as lead ligands for drug design and
CC development. The present sequence is a complementary peptide from
CC Saccharomyces cerevisiae
XX

SQ Sequence 10 AA;

Query Match 100.0%; Score 19; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 3.9e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
|||
Db 3 ACGV 6

RESULT 31

ADP94302
ID ADF94302 standard; peptide; 10 AA.

XX ADF94302;

XX 26-FEB-2004 (first entry)

DE Human cell protein fragment #27.

XX affinity-labelled RNA; drug discovery; HCV infection; biotin labelled,
KM human.

XX Homo sapiens.

XX US2003194712-A1.

XX 16-OCT-2003.

XX 12-APR-2002; 2002US-00122675.

XX 12-APR-2002; 2002US-00122675.

XX (RIGE-) RIGEL PHARM INC.

XX Lu H, Li W, Anderson D;

XX WPI; 2004-010212/01.

PT Screening for polypeptides that bind to an RNA, useful for treating
PT hepatitis C virus infection, comprises incubating an affinity-labelled RNA
PT with a cellular extract, isolating the RNA and identifying polypeptides
PT bound to the RNA.

PS Example 2; Page 11; 14pp; English.

CC The invention relates to a method of screening for polypeptides that bind
CC to an RNA comprising incubating an affinity-labelled RNA with a
CC cytoplasmic extract, where the RNA is linked to an affinity-labelled
CC oligonucleotide, isolating the affinity-labelled RNA, and identifying
CC polypeptides bound to the affinity-labelled RNA. The method is useful in
CC identifying polypeptide factors interacting with RNA. The polypeptide may
CC be used for drug discovery and in preventing or treating diseases, e.g.
CC HCV infection. The present sequence represents the amino acid sequence of
CC a cell protein fragment extracted by a biotinylated hepatitis C virus
CC IRES.

XX Sequence 10 AA;

Query Match 100.0%; Score 19; DB 8; Length 10;
Best Local Similarity 100.0%; Pred. No. 3.9e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
|||
Db 4 ACGV 7

RESULT 32

AAB35370
ID AAB35370 standard; peptide; 12 AA.

XX AAB35370;

XX 08-MAY-2001 (first entry)

DE Alpha2beta1 integrin binding peptide #35.

XX Alpha2beta1 integrin; angiogenesis; cell proliferation; cancer;
KM diabetic retinopathy; restenosis; atherosclerosis; rheumatoid arthritis;
KM macular degeneration; psoriasis; cell adhesion; cell motility.

XX Synthetic.

XX WO200105812-A2.

XX 25-JAN-2001.

XX 12-JUL-2000; 2000WO-US018986.

XX 15-JUL-1999; 99US-0144549P.

PA (USSH) US DEPT HEALTH & HUMAN SERVICES.

XX Roberts DD, Kruttsch HC;

XX WPI; 2001-182656/18.

PT New peptides that bind to or are recognized by alpha3-beta1 integrins,
PT useful for inhibiting cell adhesion to extracellular matrix, cell
PT motility and proliferation and for treating rheumatoid arthritis and
PT cancer.

PS Claim 4; Page 34; 84pp; English.

CC The present invention provides a number of peptides which bind to
CC alpha3beta1 integrins. They are useful in the modulation of cell adhesion
CC and motility, and in the treatment of cancer, diabetic retinopathy,
CC rheumatoid arthritis, macular degeneration, atherosclerosis, psoriasis
CC and restenosis. The present sequence is an example of one of the peptides
CC of the invention

XX Sequence 12 AA;

Query Match 100.0%; Score 19; DB 4; Length 12;
Best Local Similarity 100.0%; Pred. No. 4.7e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
|||
Db 1 ACGV 4

RESULT 33

ABM00107
ID ABM00107 standard; peptide; 13 AA.

XX ABM00107;

XX 02-APR-2003 (first entry)

DE T. lanuginosus lipase antibody binding peptide sequence 24.

XX Allergen, protein coordinate data; vaccine; antiallergic; immunogenicity;
KM detergent; personal care composition; cosmetic.

XX Unidentified.

XX WO200183559-A2.

XX 08-NOV-2001.

```

XX 30-APR-2001; 2001WO-DK000293.
PF
XX
PR 28-APR-2000; 2000DK-00000707.
PR 10-MAY-2000; 2000US-0203345P.
PR 28-FEB-2001; 2001DK-00000327.
PR 21-MAR-2001; 2001US-0278177P.
XX
PA (NOVO ) NOVOZYMES AS.
PI
XX Roggen EL, Ernst S, Svendsen A, Friis EP, Von Der Osten C;
XX
XX WPI; 2001-626552/72.
DR
XX
XX Selecting protein variants having modified immunogenicity, used to
PT produce vaccines, detergents and personal care compositions, involves
PT localizing epitope sequences on the three-dimensional structure of a
PT protein.
XX
XX Example 1; Page 146; 513pp; English.
PS
XX The invention relates to selecting a protein variant having modified
CC immunogenicity, compared to a parent protein, comprising using the
CC antibody binding sequence to localise epitope sequences on the three
CC dimensional structure of the parent protein and defining an epitope area
CC including amino acids within 5 Angstrom of the epitope amino acids. The
CC method is useful for identifying structural epitopes on the 3-dimensional
CC surface of commercial and environmental allergens. Compositions
CC containing the protein variants are used as vaccines, detergents and
CC personal care compositions, e.g. shampoo, balsam, hair conditioners, hair
CC waving compositions, hair dyeing compositions, hair tonic, hair liquid,
CC hair cream, hair rinse, hair spray, chewing gum, skin cream, sunscreen,
CC shaving foam, cream soap, skin milk or foundation. The present sequence
CC is that of an antibody binding peptide sequence related to the invention
XX
SQ Sequence 13 AA;
Query Match 100.0%; Score 19; DB 4; Length 13;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ACGV 4
Db 6 ACGV 9
RESULT 34
AAR49859
ID AAR49859 standard; peptide; 14 AA.
XX
AC AAR49859;
XX
XX 25-MAR-2003 (revised)
DT 12-SEP-1994 (first entry)
XX
XX Sequence of tryptic digest peptide of bovine glial growth factor III (GGF
DE III).
XX
XX Glial growth factor; GGF III; mitogen; Schwann cell.
XX
XX Bos taurus.
XX
XX WO9404560-A1.
XX
XX 03-MAR-1994.
PD
XX
XX 13-AUG-1993; 93WO-GB001721.
PF
XX
XX 14-AUG-1992; 92GB-00017316.
PR
XX (LUDW-) LUDWIG INST CANCER RES.
PA
XX
XX Goodearl ADJ, Stroobant P, Waterfield MD;
PI

```

```

XX
DR WPI; 1994-083104/10.
XX
PT New polypeptide factor and peptide(s) from bovine pituitary - having
PT mitogenic activity in stimulating division of Schwann cells, used for
PT therapy, prophylaxis, diagnosis of neuro-degenerative disease, glial cell
PT tumours, etc.
XX
XX Claim 32; Page 31; 44pp; English.
PS
XX
XX A novel polypeptide was purified from bovine pituitaries. It has
CC mitogenic activity stimulating the division of Schwann cells, and
CC exhibits a mol. wt. of 43-35kD when carrying native glycosylation. It was
CC digested with trypsin and lysylendopeptidase to obtain novel peptides
CC AAR49858-R49866 and AAR49867-R49871 respectively. When peptides AAR49862-
CC R49866 were sequenced to completion it was found that none of these
CC sequences is apparently related to GGF-I or GGF-II peptide sequences. A
CC polypeptide contg. any of the sequences in AAR49858- AAR49871 is claimed,
CC as is DNA encoding each of the peptides. (Updated on 25-MAR-2003 to
CC correct PN field.)
XX
SQ Sequence 14 AA;
Query Match 100.0%; Score 19; DB 2; Length 14;
Best Local Similarity 100.0%; Pred. No. 5.5e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ACGV 4
Db 4 ACGV 7
RESULT 35
AAM98513
ID AAM98513 standard; peptide; 14 AA.
XX
AC AAM98513;
XX
XX 24-JUN-2002 (first entry)
DT
XX
XX Human peptide #1788 encoded by a SNP oligonucleotide.
DE
XX
XX Immunosuppressive; immunostimulatory; antiinflammatory; cytostatic;
KW neuroprotective; antimicrobial; gene therapy; vaccine; amylase; cancer;
KW amyloid protein; angiotensin; apoptosis related protein; cadherin;
KW cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor;
KW complement related protein; cytochrome; kinesin; cytokine; interferon;
KW interleukin; G-protein coupled receptor; thioesterase; inflammation;
KW multifactorial disease; autoimmune disease; infection;
KW nervous system disease.
XX
XX Homo sapiens.
XX
XX WO200147944-A2.
PN
XX
XX 05-JUL-2001.
PD
XX
XX 28-DEC-2000; 2000WO-US035498.
PF
XX
XX 28-DEC-1999; 99US-0173419P.
PR 27-DEC-2000; 2000US-00173419.
XX
XX (CURA-) CURAGEN CORP.
PA
XX
XX Shinkels RA, Leach M;
XX
XX WPI; 2001-465210/50.
DR
XX
XX Polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases,
PT oncogenes and histones, useful for diagnosing and treating, e.g. cancer,
PT autoimmune diseases and infections.
XX
PS Disclosure; Page 4060; 4143pp; English.

```

XX The present invention relates to oligonucleotides (see AAL26793-AAL34659)
 CC encoding polymorphic variants of proteins related to amyloses, amyloid
 CC proteins, angiotensin, apoptosis related proteins, cadherin, cyclin,
 CC polymerase, oncogenes, histones, kinases, colony stimulating factors,
 CC complement related proteins, cytochromes, kinesins, cytokines,
 CC interferons, interleukins, G-protein coupled receptors and thioesterases.
 CC The present sequence is a peptide encoded by one such oligonucleotide.
 CC The oligonucleotide and the peptides encoded by them may be used in the
 CC prevention, diagnosis and treatment of diseases associated with
 CC inappropriate expression of the proteins listed above. Disorders that may
 CC be prevented, diagnosed and/or treated include multifactorial diseases
 CC with a genetic component, such as autoimmune diseases (e.g. rheumatoid
 CC arthritis, multiple sclerosis, diabetes, systemic lupus erythematosus
 CC and Grave's disease), inflammation, cancer (e.g. cancers of the bladder,
 CC brain, breast, colon and kidney, leukaemia), diseases of the nervous
 CC system and an infection of pathogenic organisms

SO Sequence 14 AA;

Query Match

100.0%; Score 19; DB 4; Length 14;

Best Local Similarity 100.0%; Pred. No. 5.5e+02; Mismatches 0; Indels 0; Gaps 0;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AAGV 4
 ||||
 DB 3 AAGV 6

RESULT 36

AAW50068 standard; peptide; 15 AA.

AC AAW50068;

XX 26-JUN-1998 (first entry)

XX Human chorionic gonadotropin beta-chain scrambled fragment.

XX Beta-chain; human; chorionic gonadotropin; beta-hCG; inhibition;

KM human immunodeficiency virus; HIV; infection; replication;

KM Kaposi's sarcoma; haematopoiesis.

OS Synthetic.

PN MO9749373-A2.

PD 31-DEC-1997.

PF 24-JUN-1997; 97WO-US011202.

PR 24-JUN-1996; 96US-00669681.

PR 09-SEP-1996; 96US-00709948.

PA (UTMA-) UNIV MARYLAND BIOTECHNOLOGY INST.

PI Gallo RC, Bryant J, Lunardi-Ikandar Y;

XX WPI; 1998-076887/07.

XX Human chorionic gonadotropin peptide derivatives - are active in
 PT inhibiting, e.g. HIV infection or replication, Kaposi's Sarcoma or have
 PT pro-haematopoietic activity.

XX Example; Page 112; 174pp; English.

XX The present sequence is a peptide derivative of the beta-chain of human
 CC chorionic gonadotropin (beta-hCG). The peptide is active in inhibiting,
 CC e.g. HIV infection or replication or Kaposi's sarcoma, or has pro-
 CC haematopoietic activity

SO Sequence 15 AA;

Query Match 100.0%; Score 19; DB 2; Length 15;
 Best Local Similarity 100.0%; Pred. No. 5.9e+02; Mismatches 0; Indels 0; Gaps 0;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AAGV 4
 ||||
 DB 3 AAGV 6

RESULT 37

AAW47508 standard; protein; 15 AA.

AC AAW47508;

XX 23-SEP-1998 (first entry)

XX Human beta-hCG scrambled protein fragment #2.

XX Beta-human chorionic gonadotropin; beta-hCG; hematopoietic cell; HIV;

KM treatment; proliferation; human immunodeficiency virus; dislipidic;

KM idiopathic thrombocytopenia purpura; anaemia; neutropenia; tumour;

KM chemotherapy; radiation; autoimmune disease; genetic disorder.

OS Homo sapiens.

PN MO9749418-A1.

PD 31-DEC-1997.

PF 24-JUN-1997; 97WO-US011209.

PR 24-JUN-1996; 96US-00669654.

PR 09-SEP-1996; 96US-00709924.

PA (UTMA-) UNIV MARYLAND BIOTECHNOLOGY INST.

PI Gallo RC, Bryant J, Lunardi-Ikandar Y;

XX WPI; 1998-076906/07.

XX Treating or preventing disease by increasing production of haematopoietic
 PT cells - using human chorionic gonadotropin or its fragments or
 PT derivatives, in vivo or in vitro, e.g. in cases of HIV infection, anaemia
 PT etc.

PS Disclosure; Page 101; 162pp; English.

XX AAW47474-M47508 represent fragments of the beta subunit of human
 CC chorionic gonadotropin which is used in a method for the treatment or
 CC prevention of disease, by increasing production of at least one type of
 CC hematopoietic cell. A method is also described in which non-terminally
 CC differentiated haematopoietic cells are treated in vitro to increase
 CC proliferation then returned to the patient. The method is specified for
 CC treating human immunodeficiency virus (HIV) infection, idiopathic
 CC thrombocytopenia purpura, anaemia or neutropenia, or subjects who have
 CC undergone chemotherapy or radiation treatment. More generally it can be
 CC used to treat a wide range of conditions involving haematopoietic
 CC failure, (non-) haematopoietic tumours, autoimmune disease and genetic
 CC disorders (using a transformed haematopoietic cell). The in vitro method
 CC can also be used to expand haematopoietic cells for subsequent
 CC therapeutic use

SO Sequence 15 AA;

Query Match 100.0%; Score 19; DB 2; Length 15;

Best Local Similarity 100.0%; Pred. No. 5.9e+02; Mismatches 0; Indels 0; Gaps 0;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AAGV 4
 ||||
 DB 3 AAGV 6

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RESULT 38
AAW50103
ID AAW50103 standard; peptide; 15 AA.
XX
AC AAW50103;
XX
DT 26-JUN-1998 (first entry)
XX
DE Human chorionic gonadotropin beta-chain scrambled fragment.
XX
KW Beta-chain; human; chorionic gonadotropin; beta-hCG; treatment;
XX chronic cardiovascular disease; chemotherapy; radiation therapy.
XX
OS Homo sapiens.
XX
PN WO9749721-A1.
XX
PD 31-DEC-1997.
XX
PF 24-JUN-1997; 97WO-US011448.
XX
PR 24-JUN-1996; 96US-00669675.
XX
PR 09-SEP-1996; 96US-00709933.
XX
PA (UYMA-) UNIV MARYLAND BIOTECHNOLOGY INST.
XX
PI Gallo RC, Bryant J, Lunardi-Iskandar Y;
XX
DR WPI; 1998-077106/07.
XX
PT Treating or preventing wasting syndrome - by administration of human
XX chorionic gonadotropin, beta-hCG, peptides or derivatives of these.
XX
PS Example; Page 80; 126pp; English.
XX
CC The present sequence is a peptide derivative of the beta-chain of human
XX chorionic gonadotropin (beta-hCG). The peptide can be used to treat or
XX prevent a wasting syndrome associated with viral infection, e.g. human
XX immunodeficiency syndrome virus infection, cancer, chronic cardiovascular
XX disease, chemotherapy or radiation therapy
XX
SQ Sequence 15 AA;

Query Match 100.0%; Score 19; DB 2; Length 15;
Best Local Similarity 100.0%; Pred. No. 5.9e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
Db 3 ACGV 6

RESULT 39
ABB04474
ID ABB04474 standard; peptide; 15 AA.
XX
AC ABB04474;
XX
DT 15-MAR-2002 (first entry)
XX
DE Human endoprotease 6 N-terminal peptide.
XX
KW Human; endoprotease 6; cancer; haemopathy; HIV infection; gene therapy.
XX
OS Homo sapiens.
XX
PN CN1315558-A.
XX
PD 03-OCT-2001.
XX

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PF 24-MAR-2000; 2000CN-00115125.
XX
PR 24-MAR-2000; 2000CN-00115125.
XX
PA (BODE-) BODE GENE DEV CO LTD SHANGHAI.
XX
PI Mao Y, Xie Y;
XX
DR WPI; 2002-056348/08.
XX
PT New human endoprotease 6 and encoding polynucleotide, useful for treating
XX cancer, hemopathy and human immunodeficiency virus.
XX
PS Example 5; Page 18 (Disclosure); 32pp; Chinese.
XX
CC The present invention provides the protein and coding sequences of human
XX endoprotease 6. The sequences can be used in the treatment of cancer,
XX haemopathy and HIV infection. The present sequence is the N-terminus of
XX the protein of the invention
XX
SQ Sequence 15 AA;

Query Match 100.0%; Score 19; DB 5; Length 15;
Best Local Similarity 100.0%; Pred. No. 5.9e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
Db 6 ACGV 9

RESULT 40
ADH52629
ID ADH52629 standard; peptide; 15 AA.
XX
AC ADH52629;
XX
DT 25-MAR-2004 (first entry)
XX
DE Human chorionic gonadotropin beta-chain (beta-hCG) scrambled A2 peptide.
XX
KW beta-chain; human chorionic gonadotropin; beta-hCG; cytostatic;
XX anti-HIV; HIV-viral load; HIV infection; cancer; scrambled A2.
XX
OS Synthetic.
XX
OS Homo sapiens.
XX
PN US6583109-B1.
XX
PD 24-JUN-2003.
XX
PF 24-DEC-1998; 98US-00220415.
XX
PR 24-JUN-1997; 97WO-US011202.
XX
PR 24-JUN-1997; 97WO-US011209.
XX
PR 24-JUN-1997; 97WO-US011210.
XX
PR 24-JUN-1997; 97WO-US011448.
XX
PA (GALLI/) GALLO R C.
XX (BRYNA/) BRYANT J.
XX (LUNNA/) LUNARDI-ISKANDAR Y.
XX
PI Gallo RC, Bryant J, Lunardi-Iskandar Y;
XX
DR WPI; 2004-118040/12.
XX
PT New isolated beta hCG protein or peptide, useful for preventing
XX progression of HIV infection.
XX
PS Example; SEQ ID NO 37; 118pp; English.
XX
CC The invention relates to a novel isolated protein or peptide comprising a
XX fragment of the beta-chain of human chorionic gonadotropin (beta-hCG)
XX

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CC having at least one conservative substitution relative to the beta-hCG
 CC sequence and exhibiting a therapeutic effect such as reducing HIV viral
 CC load. The peptide of the invention demonstrates cytostatic and anti-HIV
 CC activities and may be useful for reducing HIV-viral load, preventing the
 CC progression of HIV infection, reducing cancer cells and preventing the
 CC progression of cancer. The current sequence is that of the human beta-hCG
 CC peptide of the invention.

XX
 SQ Sequence 15 AA;

Query Match 100.0%; Score 19; DB 8; Length 15;
 Best Local Similarity 100.0%; Pred. No. 5.9e+02;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
 ||||
 Db 3 AOGV 6

RESULT 41

ADHS2592
 ID ADHS2592 standard; peptide; 15 AA.

AC ADHS2592;

DT 25-MAR-2004 (first entry)

DE Human chorionic gonadotropin beta-chain (beta-hCG) scrambled A2 peptide.

XX haemopoiesis; haemopoietic cell; beta chain;
 KW human chorionic gonadotropin; beta-hCG; antianaemic; cytostatic;
 KW haemostatic; anti-HIV; immunosuppressive; anabolic; anaemia; blood;
 KW neoplastic; chemotherapy; radiation; bone marrow transplant; tumour;
 KW HIV infection; autoimmune disorder; wasting syndrome; human;
 KW scrambled A2.

XX Synthetic.

OS Homo sapiens.

PN US6596688-B1.

PD 22-JUL-2003.

PF 29-SEP-2000; 2000US-00675776.

PR 24-JUN-1997; 97WO-US011202.

PR 24-JUN-1997; 97WO-US011209.

PR 24-JUN-1997; 97WO-US011210.

PR 24-JUN-1997; 97WO-US011448.

PR 24-DEC-1998; 98US-00220415.

PA (UYMA-) UNIV MARYLAND BIOTECHNOLOGY INST.

PI Gallo RC, Bryant J, Lunardi-Iskandar Y;

DR WPI; 2004-068173/07.

PT Promoting hematopoiesis comprises contacting hematopoietic cells with an
 PT amount of the beta chain of human chorionic gonadotropin.

PS Example; SEQ ID NO 37; 118bp; English.

XX The invention relates to a novel method for promoting haemopoiesis
 CC comprising contacting haemopoietic cells with an amount of an isolated
 CC beta chain of human chorionic gonadotropin (beta-hCG) protein or peptide.
 CC The method of the invention has antianaemic, cytostatic, haemostatic,
 CC anti-HIV, immunosuppressive and anabolic applications and may be useful
 CC for treating, preventing or delaying the onset of a disease or disorder
 CC associated with one or more haemopoietic cell deficiencies such as
 CC anaemia, a disease resulting from a failure or dysfunction of normal
 CC blood cell production and/or maturation or a neoplastic disease of a
 CC haemopoietic organ. The protein or peptide may be used to promote
 CC haemopoiesis following chemotherapy, exposure to radiation, bone marrow

CC transplant or a treatment comprising infusion of genetically modified
 CC haemopoietic stem cells, as well as to effect a bone marrow rescue
 CC procedure following otherwise lethal chemotherapy or irradiation of a
 CC malignant tumour. Furthermore, the protein may be used to prevent or
 CC treat HIV infection, autoimmune disorders or wasting syndrome. The
 CC current sequence is that of the human chorionic gonadotropin beta-chain
 CC (beta-hCG) scrambled A2 peptide of the invention.

XX
 SQ Sequence 15 AA;

Query Match 100.0%; Score 19; DB 8; Length 15;
 Best Local Similarity 100.0%; Pred. No. 5.9e+02;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
 ||||
 Db 3 AOGV 6

RESULT 42

ADK39780
 ID ADK39780 standard; peptide; 15 AA.

AC ADK39780;

DT 20-MAY-2004 (first entry)

DE Human chorionic gonadotropin beta chain-derived peptide #35.

XX human; Cytostatic; Anti-HIV; Virucide; Immunosuppressive; Gene-Therapy;
 KW cancer; beta-human chorionic gonadotropin; hCG; hyperplasia; metastasis;
 KW dysplasia; hyperproliferative malignant stem cell disorder; leukaemia;
 KW sarcoma; carcinoma; human immunodeficiency virus; HIV;
 KW autoimmune disorder; wasting syndrome.

XX Homo sapiens.

PN US6699834-B1.

PD 02-MAR-2004.

PF 29-SEP-2000; 2000US-00675362.

PR 24-JUN-1997; 97WO-US011202.

PR 24-JUN-1997; 97WO-US011209.

PR 24-JUN-1997; 97WO-US011210.

PR 24-JUN-1997; 97WO-US011448.

PR 24-DEC-1998; 98US-00220415.

PA (UYMA-) UNIV MARYLAND BIOTECHNOLOGY INST.

PI Gallo RC, Bryant J, Lunardi-Iskandar Y;

DR WPI; 2004-200901/19.

PT Treating and inhibiting the growth of cancer, HIV infections and wasting
 PT syndrome in a subject by administering a protein or peptide having at
 PT least one segment of the beta-human chorionic gonadotropin.

PS Disclosure; SEQ ID NO 37; 118bp; English.

XX The invention relates to a method of treating and inhibiting the growth
 CC of cancer in a subject, comprising administering a protein or peptide
 CC comprising at least one segment consisting of 5-50 amino acid segment of
 CC the sequence of beta-human chorionic gonadotropin (hCG), where the
 CC protein or peptide exhibits an anti-cancer effect. The protein or peptide
 CC is administered in conjunction with another cancer therapy, and is
 CC administered to treat a pre-malignant condition, wherein the pre-
 CC malignant condition comprises non-neoplastic cell growth selected from
 CC the group consisting of hyperplasia, metaplasia and dysplasia. The
 CC methods and compositions of the present invention are useful for treating
 CC and/or preventing cancer, wherein the cancer is a gestational
 CC trophoblastic tumour, a testicular germ cell tumour, a bladder cancer, a

CC pancreatic cancer, a cervical cancer, lung cancer, liver cancer, ovarian
 CC cancer, colon or stomach cancer, a virally induced cancer, neuroblastoma,
 CC breast cancer, prostate cancer or renal cancer, or is a leukaemia
 CC hyperproliferative malignant stem cell disorder, or is a leukaemia
 CC selected from the group consisting of acute lymphocytic leukaemia, acute
 CC myelocytic leukaemia, myeloblastic, promyelocytic, myelomonocytic,
 CC monocytic, erythroleukaemia, chronic myelocytic (granulocytic) leukaemia,
 CC and chronic lymphocytic leukaemia, or is selected from the group
 CC consisting of sarcomas and carcinomas, fibrosarcoma, myosarcoma,
 CC liposarcoma, chondrosarcoma, osteogenic sarcoma, chordoma, angiosarcoma,
 CC endothelioma, lymphangiosarcoma, lymphangioblastoma, leiomyosarcoma,
 CC synovium, mesothelioma, Ewing's tumour, leiomyosarcoma,
 CC rhabdomyosarcoma, colon carcinoma, pancreatic cancer, breast cancer,
 CC ovarian cancer, prostate cancer, squamous cell carcinoma, basal cell
 CC carcinoma, adenocarcinoma, sweat gland carcinoma, sebaceous gland
 CC carcinoma, papillary carcinoma, papillary adenocarcinomas,
 CC cytoductocarcinoma, medullary carcinoma, bronchogenic carcinoma, renal
 CC cell carcinoma, hepatoma, bile duct carcinoma, choriocarcinoma, seminoma,
 CC embryonal carcinoma, Malignant tumour, cervical cancer, uterine cancer,
 CC testicular tumour, lung carcinoma, small cell lung carcinoma, bladder
 CC carcinoma, epithelial carcinoma, glioma, astrocytoma, medulloblastoma,
 CC craniopharyngioma, ependymoma, pinealoma, hemangioblastoma, acoustic
 CC neuroma, oligodendroglioma, meningioma, melanoma and retinoblastoma,
 CC and/or Kaposi's sarcoma. They can also be used in preventing and/or
 CC treating human immunodeficiency virus (HIV) infection, autoimmune
 CC disorders and wasting syndrome. The present sequence represents the amino
 CC acid sequence of a peptide derived from beta-human chorionic gonadotropin
 CC (hCG), used in the method of the invention.

XX Sequence 15 AA;

Query Match 100.0%; Score 19; DB 8; Length 15;
 Best Local Similarity 100.0%; Pred. No. 5.9e+02;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 AOGV 4
 ||||
 Db 3 AOGV 6

RESULT 43

ADT90972 standard; peptide; 15 AA.

ADT90972;

30-DEC-2004 (first entry)

Human beta-hCG (human chorionic gonadotropin) scrambled peptide #2.

Human chorionic gonadotropin; hCG; AIDS;
 acquired immune deficiency syndrome; ARC; AIDS-related complex;
 haematopoiesis; normal blood cell production dysfunction;
 aplastic anaemia; pancytopenia; thrombocytopaenia;
 Blackfan-Diamond syndrome; haematopoietic disorder;
 acute lymphocytic leukaemia; chronic lymphocytic leukaemia;
 Waldenstrom's macroglobulinaemia; Hodgkin's lymphoma;
 non-Hodgkin's lymphoma; immunosuppression; malignant tumour;
 solid tumour; cancer; retinoblastoma; glioblastoma; rhabdomyosarcoma;
 Ewing's sarcoma; Kaposi's sarcoma; KS; autoimmune disorders;
 rheumatoid arthritis; chronic hepatitis; multiple sclerosis;
 systemic lupus erythematosus; SLE; genetic disorder; Fanconi's syndrome;
 Bloom's syndrome; Chwasmann-Diamond syndrome; Leesch-Nyhan syndrome;
 severe combined immunodeficiency disease; SCID; Gaucher's disease;
 Kostmann's syndrome; osteoporosis; myelosclerosis;
 Chediak-Higashi syndrome; mucopolysaccharidoses; mucopolipidoses;
 infectious disease; bacterial infection; brucellosis; listeriosis;
 leprosy; tuberculosis; parasitic infection; malaria; leishmaniasis;
 fungal infection; gene therapy; anti-HIV; antimicrobial; cytostatic;
 antinaemic; human; mutant; mutein.

XX Homo sapiens.
 OS Synthetic.

XX US680582-B1.
 XX 19-OCT-2004.
 XX 02-OCT-2000; 2000US-00677152.
 XX 24-JUN-1997; 97WO-US011202.
 XX 24-JUN-1997; 97WO-US011209.
 XX 24-JUN-1997; 97WO-US011210.
 XX 24-JUN-1997; 97WO-US011448.
 XX 24-DEC-1998; 98US-00220415.
 XX (UNMA-) UNIV MARYLAND BIOTECHNOLOGY INST.
 XX Gallo RC, Bryant J, Lunardi-Iskandar Y;
 XX WPI; 2004-735330/72.
 XX Therapeutic composition, useful to treat e.g. HIV infection and cancer,
 XX comprises at least one fraction separated from a urine sample comprising
 XX at least one fraction of naturally occurring human chorionic
 XX gonadotropin.
 XX Example; SEQ ID NO 37; 117bp; English.

XX The present invention relates to fractions of sources and/or preparations
 XX of human chorionic gonadotropin (hCG) such as fractions of human early
 XX pregnancy urine, which fractions have anti-HIV (human immunodeficiency
 XX virus) activity. The invention is useful to treat and prevent the
 XX progression of HIV infection to AIDS (acquired immune deficiency
 XX syndrome) and ARC (AIDS-related complex). The invention is also useful
 XX for treating diseases by promoting haematopoiesis. The diseases or
 XX disorders treated by increasing the production of haematopoietic cells
 XX includes diseases resulting from a failure or dysfunction of normal blood
 XX cell production and maturation such as aplastic anaemia, pancytopenia,
 XX thrombocytopaenia, Blackfan-Diamond syndrome etc., haematopoietic
 XX disorders such as acute and chronic lymphocytic (lymphoblastic)
 XX leukaemia, Waldenstrom's macroglobulinaemia, Hodgkin's lymphoma, non-
 XX Hodgkin's lymphoma etc., immunosuppression in patients with malignant and
 XX solid tumours such as cancer, retinoblastoma, glioblastoma,
 XX rhabdomyosarcoma, Ewing's sarcoma, Kaposi's sarcoma (KS) etc., autoimmune
 XX disorders such as rheumatoid arthritis, chronic hepatitis, multiple
 XX sclerosis, systemic lupus erythematosus (SLE), etc., genetic (congenital)
 XX disorders such as Fanconi's syndrome, Bloom's syndrome, Chwasmann-
 XX Diamond syndrome, Leesch-Nyhan syndrome, severe combined immunodeficiency
 XX disease (SCID), Gaucher's disease, Kostmann's syndrome etc., diseases
 XX such as osteoporosis, myelosclerosis, Chediak-Higashi syndrome,
 XX mucopolysaccharidoses, mucopolipidoses etc. and other infectious diseases
 XX including bacterial infections such as brucellosis, listeriosis, leprosy,
 XX tuberculosis etc., parasitic infections such as malaria, leishmaniasis
 XX etc. and fungal infections. The invention is also useful in gene therapy.
 XX The present sequence is human beta-hCG (human chorionic gonadotropin)
 XX scrambled peptide. This beta-hCG peptide is also termed as scrambled A2.

XX Sequence 15 AA;

Query Match 100.0%; Score 19; DB 8; Length 15;
 Best Local Similarity 100.0%; Pred. No. 5.9e+02;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 AOGV 4
 ||||
 Db 3 AOGV 6

RESULT 44

AAR51746 standard; proetin; 16 AA.

AAR51746;

01-FEB-1995 (first entry)

Der p I derived peptide, DP I-16(170-191).

Group I; protein allergen; house dust mite; D. pteronyssinus; Der p I; homology; D. farinae; Der f I; group II; Der p II; Der f II; T-cell; epitopes; fusion peptides; antigenic fragments; substitution; deletion; addition; chemical synthesis; chemical cleavage; recombinant techniques; allergic response; immunoglobulin E; IgE; immunotherapy; anaphylaxis; TGF-mediated responses; anergise; lymphokine secretion profile; modify; T cell subpopulations; unresponsive; immune response; tolerance.

Dermatophagoides pteronyssinus.

ZA9302677-A.

26-JAN-1994.

16-APR-1993; 93ZA-00002677.

16-APR-1993; 93ZA-00002677.

(IMMU-) IMMUNOLOGIC PHARM CORP.

Garmann RD, Greenstein JL, Kuo M, Rogers BL;

WPI; 1994-126807/15.

Isolated and/or modified peptides comprising T-cell epitopes - of major protein allergens of genus Dermatophagoides, used to treat or diagnose sensitivity to house dust mites.

Disclosure; Fig 3; 154pp; English.

The sequences given in AAR51731-841 represent T-cell epitopes derived from the group I and II protein allergens from the house dust mite D. farinae and D. pteronyssinus, Der f I, Der f II, Der p I and Der p II respectively. The Der f II protein sequence shows high homology having an identity of 88%, with an identity of 81% between the two group I proteins (see also AAR51727-30). Fusion peptides may be produced which comprise at least two or three antigenic fragments. Each region of these fusion peptides may be derived from the same, or different, mite allergens. The antigenic fragments may be altered by substitution, deletion or addition to enhance their antigenicity. These peptides may be produced by chemical synthesis, chemical cleavage of the protein allergen or by recombinant techniques. These peptides, or the fusion peptides, when administered to a house dust mite sensitive individual, are capable of modifying the allergic response of the individual to the allergen. The peptides do not bind to immunoglobulin E (IgE), or bind IgE to a lesser extent than the full length protein allergen. This reduces the major complications of standard immunotherapy, which are IgE-mediated responses such as anaphylaxis. Exposure of mite allergic patients to these peptides may tolerate or anergise appropriate T cell subpopulations such that they become unresponsive to mite allergens and do not participate in mounting an immune response upon exposure. Administration of the peptides may also modify the lymphokine secretion profile as compared with exposure to the naturally occurring mite protein allergen

Sequence 16 AA;

Query Match 100.0%; Score 19; DB 2; Length 16;
Best Local Similarity 100.0%; Pred. No. 6.4e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 AQGV 4
|||
|||
11 AQGV 14

RESULT 45
ADU87133
ID ADU87133 standard; peptide; 16 AA.
XX
NC ADU87133;

XX	10-FEB-2005	(first entry)
DT		
DE	Peptide display system related CDR 3 #165.	
XX		
XX	antiinflammatory; antibacterial; virocid; cytostatic; antipneumatic;	
KW	antidiabetic; vasotropic; vaccine; protein purification; protein folding;	
KW	diagnosis; inflammation; immune disorder; allergic hypersensitivity;	
KW	infection; autoimmune disease; asthma; psoriasis;	
KW	insulin dependent diabetes; multiple sclerosis; rheumatoid arthritis;	
KW	systemic lupus erythematosus; myasthenia gravis; hematological disease;	
KW	neoplasm; complementarity determining region 3; CDR3.	
XX		
OS	Homo sapiens.	
XX		
PN	WO2004101790-A1.	
XX		
PD	25-NOV-2004.	
XX		
PF	14-MAY-2004; 2004WO-GB002102.	
XX		
PR	14-MAY-2003; 2003US-0470340P.	
PR	17-MAR-2004; 2004US-0554021P.	
XX		
PA	(DOMA-) DOMANTIS LTD.	
XX		
PI	Jespers LS, Jones PC, Famm KHU, Winter GP;	
XX		
DR	WPI, 2004-021888/81.	
XX		
PT	Recovering a polypeptide that unfolds reversibly from a repertoire of	
PT	polypeptides for treating e.g., cancer, by unfolding a portion of the	
PT	displayed polypeptides and refolding a portion of the unfolded	
PT	polypeptides.	
XX		
PS	Disclosure; Fig 4; 222pp; English.	
XX		
XX	The invention describes a method of recovering a polypeptide that unfolds	
CC	reversibly from a repertoire of polypeptides that unfolds reversibly and	
CC	has a common selectable characteristic that distinguishes folded	
CC	polypeptides from unfolded or misfolded polypeptides. The method	
CC	comprises: providing a polypeptide display system comprising the	
CC	repertoire of displayed polypeptides; unfolding at least a portion of the	
CC	displayed polypeptides; refolding at least a portion of the unfolded	
CC	polypeptides; and recovering at least one polypeptide that unfolds	
CC	reversibly and has the selectable characteristic from the refolded	
CC	portion. The method is useful in recovering a polypeptide that unfolds	
CC	reversibly from a repertoire of polypeptides that unfolds reversibly. The	
CC	library or repertoire is useful for selecting a polypeptide comprising an	
CC	antibody variable domain that unfolds reversibly or a polypeptide that	
CC	refolds reversibly and comprising an antibody format. The polypeptide is	
CC	useful in the manufacture of a medicament for diagnosing, treating or	
CC	preventing a disease or medical condition mediated by a cytokine,	
CC	cytokine receptor, enzyme, enzyme co-factor or DNA binding protein, such	
CC	as an inflammatory state, allergic hypersensitivity, cancer, bacterial or	
CC	viral infection or an autoimmune disorder, e.g., asthma, psoriasis, Type	
CC	I diabetes, multiple sclerosis, rheumatoid arthritis, systemic lupus	
CC	erythematosus, Crohn's disease, myasthenia gravis, leukemia or solid	
CC	tumor. This is the amino acid sequence of complementarity determining	
CC	region (CDR) used in a polypeptide display system for selection of	
CC	reversibly folding peptides.	
XX		
XX		
SQ	Sequence 16 AA;	
XX		
Query Match	100.0%;	Score 19; DB 8; Length 16;
Best Local Similarity	100.0%;	Pred. No. 6,4e+02;
Matches	4; Conservative	0; Mismatches 0; Indels 0; Gaps 0;
1 AGGV 4		
3 AGGV 6		

```

RESULT 46
AAU70963
ID AAU70963 standard; peptide: 18 AA.
XX
XX AAU70963;
AC
XX
XX 25-FEB-2002 (first entry)
DT
XX
XX M. tuberculosis Rv0285 protein immunogenic peptide P6.
DE
XX
XX Tuberculosis; Tuberculostatic; antibacterial; vaccine; Rv0284; Rv0285;
XX Rv0455c; Rv0569; Rv1195; Rv1386; Rv3477; Rv3878; Rv3879; MT3106.1;
XX ORF13a; Rv0284c; Mycobacterium bovis; Mycobacterium africanum;
XX BCG vaccine; immunogenic peptide.
XX
XX Mycobacterium tuberculosis.
OS
XX
XX W0200179274-A2.
XX
XX 25-OCT-2001.
XX
XX 19-APR-2001; 2001WO-DK000276.
XX
XX 19-APR-2000; 2000DK-0000666.
XX
XX 21-FEB-2001; 2001DK-0000283.
XX
XX (STAT-) STATENS SERUM INST.
XX
XX Agger EM, Andersen P, Okkels LMW, Weidlingh K;
XX
XX WPI; 2002-061970/08.
XX
XX
XX New Mycobacterium tuberculosis antigens, useful for diagnosing
XX tuberculosis, and as a vaccine for treating or preventing infections
XX caused by species of tuberculosis complex.
XX
XX
XX Example 3; Page 39; 111pp; English.
XX
XX The invention relates to a substantially pure polypeptide comprising an
XX amino acid sequence selected from Rv0284, Rv0285, Rv0455c, Rv0569,
XX Rv1195, Rv1386, Rv3477, Rv3878, Rv3879c or MT3106.1 (also disclosed are
XX ORF13a and Rv0284c), or their immunogenic portion, nucleic acids
XX encoding them and an amino acid sequence analogue having at least 70%
XX sequence identity to the polypeptide and is immunogenic. The protein is
XX useful in preparing a pharmaceutical composition for diagnosing
XX tuberculosis and in preparing a vaccine against tuberculosis caused by
XX virulent mycobacteria. The vaccine or immunogenic/ pharmaceutical
XX composition can be used prophylactically in a subject already infected with a
XX virulent mycobacterium, or therapeutically in a subject already infected
XX with a virulent mycobacterium. The protein is useful for preventing,
XX treating and detecting infections caused by species of tuberculosis
XX complex (M. tuberculosis, M. bovis, M. africanum). The nucleic acids may
XX be used for effecting in vivo expression of the antigen, and in
XX diagnostic assays for detecting the presence of pathogenic organisms in a
XX sample. The vaccine is an improvement of the living BCG vaccine presently
XX available, where one or more copies of the DNA sequence encoding one or
XX more polypeptide has been incorporated into the genome of the
XX microorganism to allow the microorganism to express and secrete the
XX polypeptide. Incorporation of more than one copy of a nucleotide sequence
XX enhances the immune response. The present sequence represents an
XX immunogenic peptide derived from an M. tuberculosis protein of the
XX invention
XX
XX
XX Sequence 18 AA;
SQ
Query Match 100.0%; Score 19; DB 5; Length 18;
Best Local Similarity 100.0%; Pred. No. 7.2e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AAGV 4
   |||
   |||
Db 6 AAGV 9

```

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RESULT 47
AAU70974
ID AAU70974 standard; peptide: 18 AA.
XX
XX AAU70974;
AC
XX
XX 25-FEB-2002 (first entry)
DT
XX
XX M. tuberculosis Rv1386 protein immunogenic peptide P7.
DE
XX
XX Tuberculosis; Tuberculostatic; antibacterial; vaccine; Rv0284; Rv0285;
XX Rv0455c; Rv0569; Rv1195; Rv1386; Rv3477; Rv3878; Rv3879; MT3106.1;
XX ORF13a; Rv0284c; Mycobacterium bovis; Mycobacterium africanum;
XX BCG vaccine; immunogenic peptide.
XX
XX Mycobacterium tuberculosis.
OS
XX
XX W0200179274-A2.
XX
XX 25-OCT-2001.
XX
XX 19-APR-2001; 2001WO-DK000276.
XX
XX 19-APR-2000; 2000DK-0000666.
XX
XX 21-FEB-2001; 2001DK-0000283.
XX
XX (STAT-) STATENS SERUM INST.
XX
XX Agger EM, Andersen P, Okkels LMW, Weidlingh K;
XX
XX WPI; 2002-061970/08.
XX
XX
XX New Mycobacterium tuberculosis antigens, useful for diagnosing
XX tuberculosis, and as a vaccine for treating or preventing infections
XX caused by species of tuberculosis complex.
XX
XX
XX Example 3; Page 40; 111pp; English.
XX
XX The invention relates to a substantially pure polypeptide comprising an
XX amino acid sequence selected from Rv0284, Rv0285, Rv0455c, Rv0569,
XX Rv1195, Rv1386, Rv3477, Rv3878, Rv3879c or MT3106.1 (also disclosed are
XX ORF13a and Rv0284c), or their immunogenic portion, nucleic acids
XX encoding them and an amino acid sequence analogue having at least 70%
XX sequence identity to the polypeptide and is immunogenic. The protein is
XX useful in preparing a pharmaceutical composition for diagnosing
XX tuberculosis and in preparing a vaccine against tuberculosis caused by
XX virulent mycobacteria. The vaccine or immunogenic/ pharmaceutical
XX composition can be used prophylactically in a subject already infected with a
XX virulent mycobacterium, or therapeutically in a subject already infected
XX with a virulent mycobacterium. The protein is useful for preventing,
XX treating and detecting infections caused by species of tuberculosis
XX complex (M. tuberculosis, M. bovis, M. africanum). The nucleic acids may
XX be used for effecting in vivo expression of the antigen, and in
XX diagnostic assays for detecting the presence of pathogenic organisms in a
XX sample. The vaccine is an improvement of the living BCG vaccine presently
XX available, where one or more copies of the DNA sequence encoding one or
XX more polypeptide has been incorporated into the genome of the
XX microorganism to allow the microorganism to express and secrete the
XX polypeptide. Incorporation of more than one copy of a nucleotide sequence
XX enhances the immune response. The present sequence represents an
XX immunogenic peptide derived from an M. tuberculosis protein of the
XX invention
XX
XX
XX Sequence 18 AA;
SQ
Query Match 100.0%; Score 19; DB 5; Length 18;
Best Local Similarity 100.0%; Pred. No. 7.2e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AAGV 4
   |||
   |||
Db 6 AAGV 9

```

RESULT 48

ADV55657
ID ADV55657 standard; peptide; 18 AA.
XX
AC ADV55657;
XX
DT 10-MAR-2005 (first entry)
XX
DE G protein coupled receptor peptide SEQ ID NO 3155.
XX
KW diagnosis; cancer; obesity; diabetes; asthma; inflammation; depression;
KM food; feedstuff; cosmetics; agriculture; animal breeding; GPCK.
XX
OS Unidentified.
XX
PN MO2004111636-A2.
XX
PD 23-DEC-2004.
XX
PF 17-JUN-2004; 2004WO-EP051158.
XX
PR 17-JUN-2003; 2003BP-00101775.
PR 17-JUN-2003; 2003US-0479061P.
XX
PA (VIBV-) VIB VZW.
PA (UYGE-) UNIV GENT.
XX
PI Kas K, Vandekerckhove J, Krols L;
XX
DR WPI; 2005-057893/06.
XX
PT Identifying a peptide combo which corresponds with a family of proteins,
PT useful for diagnosing a variety of diseases, drug development or in
PT agriculture, comprises generating peptides by applying a digest on the
PT family of protein.
XX
PS Example; SEQ ID NO 3155; 265pp; English.
XX
SS The invention relates to a method of identifying a peptide combo which
CC corresponds with a family of proteins where each of the members of the
CC peptide combo is derived from a unique protein from the family. The
CC peptide combo is useful for quantifying specific known splice variants of
CC one or more particular proteins in a sample, for diagnosing complex
CC genetic diseases such as cancer, obesity, diabetes, asthma and
CC inflammation, neuropsychiatric disorders such as depression, for
CC quantifying one to several hundreds of protein disease markers
CC simultaneously leading to a more accurate diagnostic sub-classification,
CC for determining the extent of protein modification in a particular sample
CC of proteins, for tissue-typing analysis, for prenatal testing to detect
CC the presence of a congenital disease or for quantitating protein levels
CC diagnostic of a chromosomal abnormality, for diagnosing immune diseases
CC or neurological diseases, as biomarkers preclinical drug development,
CC development of improved animal models, biomarkers related with
CC toxicology, clinical drug development, guidance marketed drugs,
CC prognostic or diagnostic disease markers, drug target validation and
CC selection, monitoring protein splicing, drug lead profiling, pathway
CC analysis, answering basic disease biology questions, and in the fields of
CC food and feed, cosmetics, agriculture and animal breeding. The present
CC sequence represents a peptide from a G-protein coupled receptor peptide
CC combo.
XX
SQ Sequence 18 AA;

Query Match 100.0%; Score 19; DB 9; Length 18;
Best Local Similarity 100.0%; Pred. No. 7.2e+02; Indels 0; Gaps 0;
Matches 4; Conservative 0; Mismatches 0;

QY 1 AGV 4
|||
Db 5 AGV 8

RESULT 49

ADV54661
ID ADV54661 standard; peptide; 18 AA.
XX
AC ADV54661;
XX
DT 10-MAR-2005 (first entry)
XX
DE G protein coupled receptor peptide SEQ ID NO 2158.
XX
KW diagnosis; cancer; obesity; diabetes; asthma; inflammation; depression;
KM food; feedstuff; cosmetics; agriculture; animal breeding; GPCK.
XX
OS Unidentified.
XX
PN MO2004111636-A2.
XX
PD 23-DEC-2004.
XX
PF 17-JUN-2004; 2004WO-EP051158.
XX
PR 17-JUN-2003; 2003BP-00101775.
PR 17-JUN-2003; 2003US-0479061P.
XX
PA (VIBV-) VIB VZW.
PA (UYGE-) UNIV GENT.
XX
PI Kas K, Vandekerckhove J, Krols L;
XX
DR WPI; 2005-057893/06.
XX
PT Identifying a peptide combo which corresponds with a family of proteins,
PT useful for diagnosing a variety of diseases, drug development or in
PT agriculture, comprises generating peptides by applying a digest on the
PT family of protein.
XX
PS Example; SEQ ID NO 2158; 265pp; English.
XX
SS The invention relates to a method of identifying a peptide combo which
CC corresponds with a family of proteins where each of the members of the
CC peptide combo is derived from a unique protein from the family. The
CC peptide combo is useful for quantifying specific known splice variants of
CC one or more particular proteins in a sample, for diagnosing complex
CC genetic diseases such as cancer, obesity, diabetes, asthma and
CC inflammation, neuropsychiatric disorders such as depression, for
CC quantifying one to several hundreds of protein disease markers
CC simultaneously leading to a more accurate diagnostic sub-classification,
CC for determining the extent of protein modification in a particular sample
CC of proteins, for tissue-typing analysis, for prenatal testing to detect
CC the presence of a congenital disease or for quantitating protein levels
CC diagnostic of a chromosomal abnormality, for diagnosing immune diseases
CC or neurological diseases, as biomarkers preclinical drug development,
CC development of improved animal models, biomarkers related with
CC toxicology, clinical drug development, guidance marketed drugs,
CC prognostic or diagnostic disease markers, drug target validation and
CC selection, monitoring protein splicing, drug lead profiling, pathway
CC analysis, answering basic disease biology questions, and in the fields of
CC food and feed, cosmetics, agriculture and animal breeding. The present
CC sequence represents a peptide from a G-protein coupled receptor peptide
CC combo.
XX
SQ Sequence 18 AA;

Query Match 100.0%; Score 19; DB 9; Length 18;
Best Local Similarity 100.0%; Pred. No. 7.2e+02; Indels 0; Gaps 0;
Matches 4; Conservative 0; Mismatches 0;

QY 1 AGV 4
|||
Db 5 AGV 8

RESULT 50
ADY64078
ID ADY64078 standard; peptide: 18 AA.
XX
AC ADY64078;
XX
DT 02-JUN-2005 (first entry)
XX
DE Human MCSP epitope peptide #239.
XX
KM melanoma-associated chondroitin sulfate proteoglycan; cytotoxin;
KM melanoma; cytosol; cancer; diagnosis; antibody therapy.
XX
OS Homo sapiens.
XX
PN US2005063967-A1.
XX
PD 24-MAR-2005.
XX
PF 24-SEP-2004; 2004US-00949846.
XX
PR 21-JAN-2003; 2003US-00348231.
PR 19-DEC-2003; 2003US-00743451.
PR 20-JAN-2004; 2004US-00762129.
PR 26-MAR-2004; 2004US-00810744.
XX
PA (ARIU-) ARIUS RES INC.
PI Young DSF, Hahn SE, Findlay HP, Ferry AL;
XX
XX WPI; 2005-241247/25.
DR
XX
PT Mediating cytotoxicity of human tumor cell expressing melanoma-associated
PT chondroitin sulfate proteoglycan (MCSP) on the cell surface comprises
PT contacting with an isolated MCSP binding monoclonal antibody or its
PT antigen binding fragment.
XX
XX Example 4; Page 15; 47pp; English.
PS
XX The invention relates to a novel method for mediating cytotoxicity of a
XX human tumor cell using cancerous disease modifying antibodies (CDMAB),
XX especially cells expressing a melanoma-associated chondroitin sulfate
XX proteoglycan (MCSP) antigenic moiety on the cell surface. The method
XX involves contacting the cell with an isolated monoclonal antibody
XX (deposited with the ATCC as PTA-5643) or its antigen binding fragment
XX that binds to the expressed MCSP antigenic moiety, where cell
XX cytotoxicity occurs as a result of the binding. A CDMAB used in a method
XX of the invention has cytostatic activity. The method is useful for
XX mediating cytotoxicity of a human tumor cell and especially useful for
XX treating a patient suffering from a cancerous disease. The sequences
XX shown in (ADY63841-ADY64097) represent peptide fragments of MCSP, used to
XX create an overlapping peptide array in order to carry out antibody
XX epitope mapping experiments.
XX
SQ Sequence 18 AA;
Query Match 100.0%; Score 19; DB 9; Length 18;
Best Local Similarity 100.0%; Pred. No. 7.2e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 AOGV 4
DB 6 AOGV 9

DE Human MCSP epitope peptide #238.
XX
KM melanoma-associated chondroitin sulfate proteoglycan; cytotoxin;
KM melanoma; cytosol; cancer; diagnosis; antibody therapy.
XX
OS Homo sapiens.
XX
PN US2005063967-A1.
XX
PD 24-MAR-2005.
XX
PF 24-SEP-2004; 2004US-00949846.
XX
PR 21-JAN-2003; 2003US-00348231.
PR 19-DEC-2003; 2003US-00743451.
PR 20-JAN-2004; 2004US-00762129.
PR 26-MAR-2004; 2004US-00810744.
XX
PA (ARIU-) ARIUS RES INC.
PI Young DSF, Hahn SE, Findlay HP, Ferry AL;
XX
XX WPI; 2005-241247/25.
DR
XX
PT Mediating cytotoxicity of human tumor cell expressing melanoma-associated
PT chondroitin sulfate proteoglycan (MCSP) on the cell surface comprises
PT contacting with an isolated MCSP binding monoclonal antibody or its
PT antigen binding fragment.
XX
XX Example 4; Page 15; 47pp; English.
PS
XX The invention relates to a novel method for mediating cytotoxicity of a
XX human tumor cell using cancerous disease modifying antibodies (CDMAB),
XX especially cells expressing a melanoma-associated chondroitin sulfate
XX proteoglycan (MCSP) antigenic moiety on the cell surface. The method
XX involves contacting the cell with an isolated monoclonal antibody
XX (deposited with the ATCC as PTA-5643) or its antigen binding fragment
XX that binds to the expressed MCSP antigenic moiety, where cell
XX cytotoxicity occurs as a result of the binding. A CDMAB used in a method
XX of the invention has cytostatic activity. The method is useful for
XX mediating cytotoxicity of a human tumor cell and especially useful for
XX treating a patient suffering from a cancerous disease. The sequences
XX shown in (ADY63841-ADY64097) represent peptide fragments of MCSP, used to
XX create an overlapping peptide array in order to carry out antibody
XX epitope mapping experiments.
XX
SQ Sequence 18 AA;
Query Match 100.0%; Score 19; DB 9; Length 18;
Best Local Similarity 100.0%; Pred. No. 7.2e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 AOGV 4
DB 15 AOGV 18

RESULT 52
AAW92548
ID AAW92548 standard; peptide: 19 AA.
XX
AC AAW92548;
XX
DT 26-APR-1999 (first entry)
XX
DE Beta-actin array biotinylated peptide substrate #6.
XX
KM Peptide substrate; CCT; eukaryotic type II chaperonin complex; cyclin;
KM binding agent; substrate-binding site; SBS; substrate folding; actin;
KM tubulin; treatment; cancer; anticancer drug; viral infection; screening;
KM reduced toxicity.
XX
OS Synthetic.

XX Key Location/Qualifiers
PH Modified-site 1 /note= "Ser modified by biotin"
PT
FT
XX WO9853322-A1.
XX
XX 26-NOV-1998.
PD
XX 22-MAY-1998; 98WO-GB001485.
XX
XX 23-MAY-1997; 97GB-00010762.
XX
XX (CANC-) INST CANCER RES ROYAL CANCER HOSPITAL.
XX
XX Willison K, Hynes G, Liou AK;
XX WPI, 1999-070162/06.
DR
XX Identifying specific binding agents for substrate binding site in CCT
PT chaperonin complex - also new peptide binding agents and their mimetics,
PT and peptides containing a specific CCT binding site, used for treating
PT cancer.
XX
XX Disclosure; Fig 11; 97pp; English.
PS
XX This invention describes a method which uses the CCT (eukaryotic type II
CC chaperonin) complex or part of it, for identifying a binding agent that
CC can occupy a substrate-binding site (SBS) on the CCT complex. By binding
CC to the CCT complex, the binding agents block an SBS so that biological
CC activity of the CCT complex is affected, particularly its ability to fold
CC substrates such as actin, tubulin and cyclin. The binding agents are
CC useful for treatment of cancer, particularly when used in combination
CC with an anticancer drug, or viral infections. Nucleic acid fragments are
CC used to screen for agents, e.g. binding agents that modulate interaction
CC between the CCT complex and a protein that is to be folded. The binding
CC agents may target cells that are actively synthesizing tubulin etc.
CC (unlike known microtubule-stabilising agents that affect all cells), so
CC should have reduced toxicity for normal cells. AAW92543-W92549 are
CC peptide substrates used in the method of the invention
CC
XX
SQ Sequence 19 AA;
Query Match 100.0%; Score 19; DB 2; Length 19;
Best Local Similarity 100.0%; Pred. No. 7.6e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AOGV 4
DB 9 AOGV 12
RESULT 53
AAW92549
ID AAW92549 standard; peptide; 19 AA.
XX
XX AAW92549;
AC
XX
DT 26-APR-1999 (first entry)
XX
XX Beta-actin array biotinylated peptide substrate #7.
DE
XX Peptide substrate; CCT; eukaryotic type II chaperonin complex; cyclin;
KW binding agent; substrate-binding site; SBS; substrate folding; actin;
KW tubulin; treatment; cancer; anticancer drug; viral infection; screening;
KW reduced toxicity.
XX
XX Synthetic.
OS
XX
XX Key Location/Qualifiers
PH Modified-site 1 /note= "Ser modified by biotin"
FT
XX

PN WO9853322-A1.
XX
XX 26-NOV-1998.
PD
XX 22-MAY-1998; 98WO-GB001485.
XX
XX 23-MAY-1997; 97GB-00010762.
XX
XX (CANC-) INST CANCER RES ROYAL CANCER HOSPITAL.
XX
XX Willison K, Hynes G, Liou AK;
XX WPI, 1999-070162/06.
DR
XX Identifying specific binding agents for substrate binding site in CCT
PT chaperonin complex - also new peptide binding agents and their mimetics,
PT and peptides containing a specific CCT binding site, used for treating
PT cancer.
XX
XX Disclosure; Fig 11; 97pp; English.
PS
XX This invention describes a method which uses the CCT (eukaryotic type II
CC chaperonin) complex or part of it, for identifying a binding agent that
CC can occupy a substrate-binding site (SBS) on the CCT complex. By binding
CC to the CCT complex, the binding agents block an SBS so that biological
CC activity of the CCT complex is affected, particularly its ability to fold
CC substrates such as actin, tubulin and cyclin. The binding agents are
CC useful for treatment of cancer, particularly when used in combination
CC with an anticancer drug, or viral infections. Nucleic acid fragments are
CC used to screen for agents, e.g. binding agents that modulate interaction
CC between the CCT complex and a protein that is to be folded. The binding
CC agents may target cells that are actively synthesizing tubulin etc.
CC (unlike known microtubule-stabilising agents that affect all cells), so
CC should have reduced toxicity for normal cells. AAW92543-W92549 are
CC peptide substrates used in the method of the invention
CC
XX
SQ Sequence 19 AA;
Query Match 100.0%; Score 19; DB 2; Length 19;
Best Local Similarity 100.0%; Pred. No. 7.6e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AOGV 4
DB 9 AOGV 12
RESULT 54
ABP74723
ID ABP74723 standard; peptide; 19 AA.
XX
XX ABP74723;
AC
XX
DT 03-FEB-2003 (first entry)
XX
XX Proteome analysis related peptide #8.
DE
XX Proteome analysis; isolation; determination; diagnostic assay; detection;
KW protein marker; identification; metastatic; invasive cancer;
KW differential expression; signalling pathway; chromatography.
KW
XX Homo sapiens.
OS
XX Synthetic.
OS
XX
XX 03-OCT-2002.
PD
XX
XX 22-MAR-2002; 2002WO-EP003368.
XX
XX 22-MAR-2001; 2001US-0278171P.
PR 12-SEP-2001; 2001US-0318749P.
PR 20-SEP-2001; 2001US-0323999P.
PR

```

XX
PA (VLA-) VLAAMS INTERUNIVERSITAIR INST BIOTECHNOG.
XX
PI Vandekerckhove J, Gevaert K;
XX
DR WPI; 2003-067379/06.
XX
PT Method for isolation of peptides from complex mixture of peptides
PT involves specific chemical and/or enzymatic alteration of at least one
PT type of peptide.
XX
PS Example 19; Page 138; 193pp; English.
XX
CC The present invention describes a method (M1) for the isolation of a
CC subset of peptides from a protein peptide mixture (P1). M1 involves: (a)
CC separating the protein peptide mixture into fractions of peptides via
CC chromatography; (b) chemically, or enzymatically, or chemically and
CC enzymatically, altering at least one amino acid of at least one of the
CC peptides in each fraction, thereby generating a subset of altered
CC peptides; and (c) isolating the altered (flagged) peptides out of each
CC fraction via chromatography, where the chromatography of steps (a) and
CC (c) is performed with the same type of chromatography. M1 can be used for
CC the isolation and determination of peptides from protein peptide
CC mixtures. M1 can also be used in diagnostic assays for detection of the
CC presence, the absence or a variation in expression level of at least one
CC protein marker or a specific set of proteins indicative of a disease
CC state. M1 can be used for identifying target proteins present in
CC metastatic and invasive cancers, in differential expression of proteins
CC in transgenic mice, identification of proteins that are upregulated or
CC down regulated in disease tissues, in identification of intracellular
CC changes in cells with physiological changes such as metabolic shift, in
CC the identification of biomarkers in cancers and in the identification of
CC signalling pathways. The method is gel-free methodology for qualitative
CC and quantitative proteome analysis without the need for multidimensional
CC chromatography and without the use of affinity tags. ABP4714 to ABP75190
CC represent peptide sequences used in the exemplification of the present
CC invention.
XX
SQ Sequence 19 AA;
XX
Query Match 100.0%; Score 19; DB 6; Length 19;
Best Local Similarity 100.0%; Pred. No. 7.6e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ACGV 4
DB 3 ACGV 6
XX
RESULT 55
ADP14799
ID ADP14799 standard; peptide; 19 AA.
XX
AC ADF14799;
XX
DT 12-FEB-2004 (first entry)
XX
DE SLE/sjogren syndrome autoantigen-derived peptide - SEQ ID 294.
XX
KW plant; deamidation; tissue transglutaminase; CTG; celiac disease; CD;
KW gluten intolerance; autoimmunity; rheumatoid arthritis; multiple sclerosis;
KW systemic lupus erythematosus; sjogren syndrome; diabetes;
KW immunosuppressive; antirheumatic; antiarthritic; antidiabetic;
KW dermatological; antiinflammatory.
XX
OS Unidentified.
XX
PN EP1332760-A1.
XX
PD 06-AUG-2003.
XX
PF 04-FEB-2002; 2002EP-00075456.
XX

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PR 04-FEB-2002; 2002EP-00075456.
XX
XX (ZIEK-) ACAD ZIEKENHUIS LEIDEN.
XX
DR WPI; 2003-647889/62.
XX
XX
PT New gluten peptides or epitopes prone to deamidation by tissue
PT transglutaminase, useful for treating celiac disease or an autoimmune
PT disease, rheumatoid arthritis, multiple sclerosis, systemic lupus
PT erythematosus, or diabetes.
XX
XX
PS Claim 3; SEQ ID NO 294; 143pp; English.
XX
XX
CC The invention relates to a novel peptide or epitope which is prone to
CC deamidation by tissue transglutaminase (tTG) and is a causative factor of
CC celiac disease (CD, gluten intolerance) or an autoimmune disease such as
CC rheumatoid arthritis, multiple sclerosis, systemic lupus erythematosus,
CC sjogren syndrome or diabetes. The peptide of the invention demonstrates
CC immunosuppressive, antirheumatic, antiarthritic, antidiabetic,
CC dermatological and antiinflammatory activities whilst pharmaceutical
CC compositions comprising the peptides or epitopes may be useful for the
CC treatment of a celiac disease or an autoimmune disease such as rheumatoid
CC arthritis, multiple sclerosis, systemic lupus erythematosus, sjogren
CC syndrome or diabetes. Gluten-derived peptides may be useful in the
CC preparation of therapeutic agents capable of eliminating a subset of
CC cells, particularly gluten-sensitive or auto-antigen sensitive T cells.
CC The current sequence is that of the systemic lupus erythematosus
CC (SLE)/sjogren syndrome autoantigen-derived peptide of the invention.
XX
SQ Sequence 19 AA;
XX
Query Match 100.0%; Score 19; DB 7; Length 19;
Best Local Similarity 100.0%; Pred. No. 7.6e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ACGV 4
DB 9 ACGV 12
XX
RESULT 56
ADV55698
ID ADV55698 standard; peptide; 19 AA.
XX
AC ADV55698;
XX
DT 10-MAR-2005 (first entry)
XX
DE G protein coupled receptor peptide SEQ ID NO 3197.
XX
KW diagnosis; cancer; obesity; diabetes; asthma; inflammation; depression;
KW food; feedstuff; cosmetics; agriculture; animal breeding; GPCR.
XX
OS Unidentified.
XX
PN WO2004111636-A2.
XX
PD 23-DEC-2004.
XX
DE 17-JUN-2004; 2004WO-EP051158.
XX
PF 17-JUN-2003; 2003EP-00101775.
XX
PR 17-JUN-2003; 2003US-0479061P.
XX
XX (VIBV-) VIB VZW.
XX
PA (UYGE-) UNIV GENT.
XX
PI Kae K, Vandekerckhove J, Krols L;
XX
DR WPI; 2005-057893/06.
XX
PT Identifying a peptide combo which corresponds with a family of proteins,
PT useful for diagnosing a variety of diseases, drug development or in
XX

```


XX Argoud-Puy G, Bederr N, Bougueleret L, Cusin I, Mahe B;
PI Nimejad A, Refias S, Rose K, Saudrais C, Scherer A, Papoian R;
XX WPI; 2005-195824/20.
XX
PT Screening and/or diagnosing cardiovascular disorder in subject involves
PT detecting and/or quantifying level of polypeptide in biological sample
PT from subject and comparing with control sample.
XX
PS Claim 1; SEQ ID NO 353; 349pp; English.
XX
CC The invention relates to a method of screening and/or diagnosing a
CC cardiovascular disorder (CD) in a subject which comprises detecting
CC and/or quantifying the level of a polypeptide in a biological sample from
CC the subject and comparing the level to that of control sample. The method
CC is useful for screening, diagnosing and treating coronary artery disease,
CC biliary cirrhosis, gallstones, celiac disease, irritable bowel syndrome,
CC diabetes, scleroderma, nausea, vomiting, constipation and diarrhea. The
CC method is rapid and efficient. The present sequence represents a
CC cardiovascular disorder plasma protein tryptic fragment.
CC
SQ Sequence 19 AA;
XX
QY 1 AOGV 4
 |||
Db 3 AOGV 6
XX
RESULT 59
ADK9563
ID ADC9563 standard; peptide; 20 AA.
XX
AC ADC9563;
XX
DT 01-JAN-2004 (first entry)
XX
DE Cancer-related VEGF-R1/Flt1-binder peptide - SEQ ID 401.
XX
XX Cytostatic; cancer; gene therapy; DGI-2; DGI-5; DGI-7; DGI-9; Hras;
KM Ieptin; VEGF; vascular endothelial growth factor receptor; VEGF-R1;
KM VEGF-R2; VEGF-R3; Flt1; FMS-related tyrosine kinase 1; Flk1; KDR;
KM kinase insert domain protein receptor; EGFR; epidermal growth factor;
KM FGFR1; fibroblast growth factor; Tie-1.
XX
OS Unidentified.
XX
XX WO2003035839-A2.
XX
PD 01-MAY-2003.
XX
PF 24-OCT-2002; 2002WO-US034021.
XX
PR 24-OCT-2001; 2001US-0345471P.
XX
PA (DGI-B-) DGI BIOTECHNOLOGIES INC.
XX
PI Piliulja RC, Brissette R, Spruyt M, Dedova O, Blume A;
PI Prendergast J, Goldstein N;
XX
DR WPI; 2003-457332/43.
XX
XX Selecting target and target binder pairs for preparing a composition for
PT treating cancer by mixing in a reaction vessel phage expressing
PT biological targets and phage expressing target binders.
XX
PS Claim 26; SEQ ID NO 401; 172pp; English.
XX
CC The invention relates to a novel method of selecting target and target

CC binder pairs comprising mixing in a reaction vessel phage expressing
CC biological targets and phage expressing target binders, each having
CC distinguishable selection markers and selecting target and target binder
CC pairs based on the selection markers. The molecules of the invention
CC demonstrate cytostatic activity whilst the method may be useful for
CC selecting target and target binder pairs for preparing a composition for
CC treating cancer. Furthermore, the method may be utilised during gene
CC therapy procedures. The current sequence is that of the cancer-related
CC VEGF-R1/Flt1 (vascular endothelial growth factor-receptor 1/FMS-related
CC tyrosine kinase 1)-binder peptide of the invention.
XX
SQ Sequence 20 AA;
XX
QY 1 AOGV 4
 |||
Db 6 AOGV 9
XX
RESULT 60
ADK15603
ID ADK15603 standard; peptide; 20 AA.
XX
AC ADK15603;
XX
DT 03-JUN-2004 (first entry)
XX
DE Human G250 tumour antigen derived peptide #13.
XX
XX Human; G250 tumour antigen; immunogenic peptide; CD4+; CD8+;
KM T-cell immune response; renal cell carcinoma; RCC; cancer; kidney;
KM prostate; head; neck; gastrointestinal tract; colon; stomach; bladder;
KM cyostatic; immunostimulant.
XX
OS Homo sapiens.
XX
XX US2004053391-A1.
XX
PN 18-MAR-2004.
XX
PD 11-SEP-2002; 2002US-00241814.
XX
PF 11-SEP-2002; 2002US-00241814.
XX
PR (UTNI-) UNIV NIEMEGEN.
XX
PA
XX
PI Vissers JLM, De Vries IJM, Oosterwijk E, Figdor CG, Adema GJ;
XX
DR WPI; 2004-247730/23.
XX
XX New renal cell carcinoma-antigen G250-derived peptide, useful as vaccine
PT for treating or preventing cancer, e.g. renal cell carcinoma, cancer of
PT the kidney, prostate, head, neck, bladder or gastrointestinal tract, e.g.
PT colon or stomach.
XX
XX Example; SEQ ID NO 13; 17pp; English.
XX
XX The present invention relates to human G250 tumour antigen derived
CC immunogenic peptides capable of eliciting CD4+ and CD8+ T-cell immune
CC responses. The immunogenic peptides can elicit an immune response against
CC cells that express the G250 antigen, such as those found in renal cell
CC carcinoma (RCC). The immunogenic peptides and/or the nucleotide sequences
CC that encode them are useful for the manufacture of a composition for
CC treating or preventing cancer, e.g. renal cell carcinoma or a cancer of
CC the kidney, prostate, head, neck, gastrointestinal tract or any of its
CC part, e.g. colon or stomach or bladder. The peptides are also useful for
CC the preparation of a composition for treating or preventing a tumour that
CC expresses the G250 antigen. The immunogenic peptides are also useful in
CC eliciting an immune response in a human or animal against a tumour. The
CC present sequence represents a human G250 tumour antigen derived peptide.

```

XX SQ Sequence 20 AA;
      Query Match          100.0%; Score 19; DB 8; Length 20;
      Best Local Similarity 100.0%; Pred. No. 8e+02;
      Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AOGV 4
   ||||
Db 1 AOGV 4

RESULT 61
ADT36531
ID ADT36531 standard; peptide; 20 AA.
XX
XX ADT36531;
XX
XX 02-DEC-2004 (first entry)
XX
XX RCC-associated antigen G250-derived peptide (residues 337-356), SEQ:13.
XX
XX Human; renal cell carcinoma-associated antigen G250;
XX RCC-associated antigen G250; tumour-associated antigen MN/CA IX; cancer;
XX kidney; prostate; head; neck; gastrointestinal tract;
XX renal cell carcinoma; colon; stomach; bladder; CD4+ T cell response;
XX CD4+ T cell response; cytostatic; vaccine; gene therapy; immunotherapy;
XX HLA class II binding; MHC class II binding; human leukocyte antigen;
XX major histocompatibility complex.
XX
XX Homo sapiens.
XX
XX AU2002300986-A1.
XX
XX 01-APR-2004.
XX
XX 12-SEP-2002; 2002AU-00300986.
XX
XX 12-SEP-2002; 2002AU-00300986.
XX
XX (UYN1-) UNIV NIJMEGEN.
XX
XX Adema GJ, Fijdor CG, Oosterwijk E, De Vries JM, Vissers JLM;
XX
XX WPI; 2004-662544/65.
XX
XX New renal cell carcinoma-antigen G250-derived peptide other than human
XX G250 protein, useful for preventing or treating cancer such as renal cell
XX carcinoma or cancer of kidney, prostate, colon, stomach or bladder.
XX
XX Example; SEQ ID NO 13; 40pp; English.
XX
XX The invention relates to a peptide derived from human renal cell
XX carcinoma (RCC)-associated antigen G250 comprising the sequence shown in
XX ADT36531 or a sequence having at most 3 amino acid replacements with
XX respect to it. The peptide of the invention is not the human G250 protein
XX (ADT36534, also known as tumour-associated antigen MN/CA IX), and
XX preferably comprises the sequence shown in ADT36530 or a sequence with 1-
XX 4 amino acid substitutions compared to ADT36530. The invention also
XX relates to compositions comprising a peptide of the invention or an
XX antigen presenting cell loaded with a peptide of the invention; a gene
XX therapy agent comprising a nucleotide sequence encoding a peptide of the
XX invention; and the use of the gene therapy agent for treating cancer. The
XX peptides, compositions and gene therapy agents are useful in the
XX treatment and prevention of cancers such as those of the kidney,
XX prostate, bladder, head, neck, gastrointestinal tract (or part thereof).
XX They are especially useful for treating or preventing renal cell
XX carcinoma, colon cancer, stomach cancer, bladder cancer or a cancer which
XX expresses the G250 protein or a sequence at least 95% identical to it.
XX Because the peptides of the invention are able to elicit CD4+ and CD8+ T-
XX cell responses against cells expressing the G250 antigen, they can be
XX used in immunotherapy for the treatment of cancers. The peptides may also
XX be used as vaccines for the prevention of cancer, and in immunological.

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CC diagnostic and/or analytical applications. Sequences ADT36519-ADT36532
CC represent RCC-associated antigen G250-derived peptides predicted to bind
CC to HLA (human leukocyte antigen) class II molecules which were tested for
CC their ability to induce a CD4+ (helper) T cell response in the example of
CC the invention. The position given on page 23 for this peptide in the full
CC length G250 protein differs by one amino acid to its position in
CC ADT36534.
XX
XX SQ Sequence 20 AA;
      Query Match          100.0%; Score 19; DB 8; Length 20;
      Best Local Similarity 100.0%; Pred. No. 8e+02;
      Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AOGV 4
   ||||
Db 1 AOGV 4

RESULT 62
AAB57305
ID AAB57305 standard; peptide; 21 AA.
XX
XX AAB57305;
XX
XX 09-MAR-2001 (first entry)
XX
XX Antigenic peptide from acetolactate synthase N-terminal.
XX
XX Protein expression; genetic engineering; horizontal transfer.
XX
XX Escherichia coli.
XX
XX WO200071701-A1.
XX
XX 30-NOV-2000.
XX
XX 23-MAY-2000; 2000WO-US014122.
XX
XX 24-MAY-1999; 99US-0135677P.
XX
XX (NEW) NEW ENGLAND BIOLOGICALS INC.
XX (BOST-) BOSTON BIOMEDICAL RES INST.
XX
XX Xu M, Evans TC, Pradhan S, Comb DG, Paulus H, Sun L, Chen L;
XX
XX Ghosh I;
XX
XX WPI; 2001-032033/04.
XX
XX Reconstituting a target protein in a predetermined location in an
XX organism useful for creating transgenic crops comprises splitting DNA
XX coding for the target protein into fragments and separating and
XX expressing the fragments in the organism.
XX
XX Example 1; Page 54; 177pp; English.
XX
XX The present invention relates to reconstituting a target protein in a
XX predetermined location within an organism, involving splitting DNA coding
XX for the target protein into at least two fragments, separating and
XX expressing the DNA fragments within the organism and reconstituting the
XX target protein. This may be used for genetic engineering of crops. This
XX type of transgene allows efficient protein expression but does not
XX require a gene coupling approach and has a significantly lower chance of
XX spread by horizontal gene transfer than current methods
XX
XX SQ Sequence 21 AA;
      Query Match          100.0%; Score 19; DB 4; Length 21;
      Best Local Similarity 100.0%; Pred. No. 8.4e+02;
      Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AOGV 4
   ||||

```

Db 11 AGV 14

RESULT 63
AAR36398 standard; peptide; 22 AA.
XX
AC AAR36398;
XX
DT 25-MAR-2003 (revised)
DT 12-AUG-1993 (first entry)
XX
DE DPI-16 (170-191) a Dermatophagoides protein allergen.
XX
KM T cell epitope; house dust mite; allergy; soluble; Der PI.
XX
OS Synthetic.
XX
PN WO9308279-A1.
XX
PD 29-APR-1993.
XX
PF 15-OCT-1992; 92WO-US008637.
XX
PR 16-OCT-1991; 91US-00777859.
PR 08-MAY-1992; 92US-00881396.
XX
PA (IMMU-) IMMUNOLOGIC PHARM CORP.
XX
PI Garman RD, Greenstein JL, Kuo MC, Rogers BL;
XX
DR WPI; 1993-152472/18.
XX
PT Isolated peptide(s) of dermatophagoides protein allergens - for diagnosis
PT and treatment of sensitivity to house dust mite.
XX
PS Claim 10; Fig 3; 176pp; English.
XX
CC The peptide is one of a series of overlapping peptides synthesised by
CC standard techniques to cover the whole Dermatophagoides pteronyssinus Der
CC PI sequence. The T cell epitopes of the protein were mapped by detection
CC of the peptide's ability to stimulate T cell activity. The peptides may
CC be used for diagnosis and treatment of sensitivity to house dust mite
CC allergens. When administered to house dust mite sensitive individuals,
CC the peptides are capable of modifying the allergic response to the
CC allergens. The peptides may be modified for e.g. increasing solubility,
CC enhancing therapeutic or preventive efficacy or stability. See also
CC AAR34686-700 and AAR36398-490. (Updated on 25-MAR-2003 to correct PN
CC field.)
XX
SQ Sequence 22 AA;
XX
Query Match 100.0%; Score 19; DB 2; Length 22;
Best Local Similarity 100.0%; Pred. No. 8.9e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGV 4
Db 11 AGV 14

RESULT 64
AAR77133 standard; peptide; 22 AA.
XX
AC AAR77133;
XX
DT 25-MAR-2003 (revised)
DT 31-MAY-1996 (first entry)
XX
DE Dermatophagoides pteronyssinus group I peptide DPI-16 (170-191).
XX
KM House dust mite; DerPI; DerPII; DerPII; allergen; allergy;

KM overlapping peptide; screening.
XX
OS Dermatophagoides pteronyssinus.
XX
FN WO9528424-A1.
XX
PD 26-OCT-1995.
XX
PF 12-APR-1995; 95WO-US004481.
XX
PR 14-APR-1994; 94US-00227772.
XX
PA (IMMU-) IMMUNOLOGIC PHARM CORP.
XX
PI Chen X, Evans S, Shaked Z, Franzen HM, Kuo M;
XX
DR WPI; 1995-373765/48.
XX
PT Compans. contg. house mite allergen-derived peptide(s), some of which are
PT new - are used to treat allergy, and are stable, soluble and able to
PT induce T cell non-responsiveness.
XX
PS Disclosure; Fig 2; 61pp; English.
XX
CC Claimed therapeutic compositions contain at least one of the peptides DPI
CC -21.2 and DPI-22.2 and also at least one of the new peptides DPI-23.31,
CC DPI-26.6, DPII-20.9, DPII-22.14 and DPII-25.15. The compositions are
CC useful for treating sensitivity to house dust mite allergens. The
CC peptides were identified by screening overlapping peptides derived from
CC D.pteronyssinus and D.farinae group I and II allergens for T-cell
CC reactivity in sensitised individuals. The present sequence is that of
CC overlapping peptide DPI-16 (170-191). (Updated on 25-MAR-2003 to correct
CC PR field.)
XX
SQ Sequence 22 AA;
XX
Query Match 100.0%; Score 19; DB 2; Length 22;
Best Local Similarity 100.0%; Pred. No. 8.9e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGV 4
Db 11 AGV 14

RESULT 65
AAW71926 standard; peptide; 22 AA.
XX
AC AAW71926;
XX
DT 27-AUG-2003 (revised)
DT 25-MAR-2003 (revised)
DT 16-DEC-1998 (first entry)
XX
DE Dermatophagoides Der p I protein peptide DPI-16.
XX
KM genus Dermatophagoides; major protein allergen; T cell epitope; Der p I;
KM Der p II; Der f I; Der f II; house dust mite allergy.
XX
OS Dermatophagoides.
XX
PN US5820862-A.
XX
PD 13-OCT-1998.
XX
PF 07-JUN-1995; 95US-00482142.
XX
PR 14-APR-1993; 93WO-US003471.
PR 14-APR-1994; 94US-00227772.
PR 19-MAY-1995; 95US-00445307.
XX
PA (IMMU-) IMMUNOLOGIC PHARM CORP.

XX Franzen HM, Kuo M, Evans S, Garman RD, Greenstein JL, Chen X;
PI Shaked Z, Rogers BL;
XX WPI; 1998-567590/48.
XX Dermacophagoides allergen peptides - useful for treating house dust mite
PT allergy.
XX
PS Disclosure; Col 89-91; 155pp; English.
XX
CC The present invention describes peptides for treating sensitivity to
CC house dust mite allergens from the genus Dermatophagoides. Peptides
CC within the scope of the invention comprise at least one T cell epitope,
CC or preferably at least two T cell epitopes of a protein allergen selected
CC from the allergens Der p I, Der p II, Der f I, or Der f II. The invention
CC also describes modified peptides having similar or enhanced therapeutic
CC properties as the corresponding, naturally occurring allergen, but having
CC reduced side effects. AAW71912 to AAW72000, and AAW72257 to AAW72330
CC represent peptides from the present invention. (Updated on 25-MAR-2003 to
CC correct PR field.) (Updated on 27-AUG-2003 to correct OS field.)
XX
SQ Sequence 22 AA;

Query Match 100.0%; Score 19; DB 2; Length 22;
Best Local Similarity 100.0%; Pred. No. 8.9e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AAGV 4
Db 11 AAGV 14

RESULT 66
AA50375
ID AAY50375 standard; peptide; 22 AA.
XX
AC AAY50375;
XX
DT 25-JAN-2000 (first entry)
XX
DE Dermatophagoides sp major protein allergen DP I-16.
XX
KM Allergen; house dust mite; detection; sensitivity; T cell epitope;
KM screening; allergic disorder; asthma; rhinitis; ectopic dermatitis;
KM Der f I; Der p I; Der p II; Der f II.
XX
OS Dermatophagoides sp.
XX
PN US5968526-A.
XX
PD 19-OCT-1999.
XX
PF 07-JUN-1995; 95US-00478572.
XX
PR 14-APR-1994; 94US-00227772.
PR 12-APR-1995; 95WO-US004481.
PR 19-MAY-1995; 95US-00445307.
XX
PA (IMMU-) IMMUNOLOGIC PHARM CORP.
XX
PI Garman RD, Greenstein JL, Rogers BL, Franzen HM, Shaked Z;
PI Chen X, Evans S, Kuo M;
XX
XX WPI; 1999-590385/50.
XX
PT Screening individuals for allergic reactions to T cell epitopes of major
PT allergens from house dust mites.
XX
PS Claim 10; Col 91-92; 158pp; English.
XX
CC This invention describes a novel method (I) for detecting whether an
CC individual is sensitive to Dermatophagoides (house dust mites). The

CC method involves detecting sensitivity to house dust mites in patients,
CC comprising combining a blood sample from the individual with 1 or more
CC isolated T cell epitopes of the protein allergens I and II (DP I) and
CC (DP II) from Dermatophagoides (house dust mites). 32 T cell epitopes
CC with varying, defined amino acids sequences (given in the specification)
CC may be used in (I). The sample and allergens are combined under
CC conditions appropriate for the binding of blood components with the
CC polypeptides. The extent of binding is then indicative of the sensitivity
CC of the patient to house dust mites. (I) may be used to screen individuals
CC for sensitivity to Dermatophagoides (house dust mites). The house dust
CC mite is a major cause of a variety of allergic disorders such as asthma,
CC rhinitis and eczopic dermatitis. AAY50360-Y50542 and AAY50546-Y50555
CC represent house dust mite allergen peptide fragments derived from Der p
CC I, Der f II, Der f I and Der f II
XX
SQ Sequence 22 AA;

Query Match 100.0%; Score 19; DB 2; Length 22;
Best Local Similarity 100.0%; Pred. No. 8.9e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AAGV 4
Db 11 AAGV 14

RESULT 67
AAU18978
ID AAU18978 standard; peptide; 22 AA.
XX
AC AAU18978;
XX
DT 04-DEC-2001 (first entry)
XX
DE T-cell epitope containing peptide DPI-16.
XX
KM House dust mite; allergenic peptide; Der p I; Der p II; Der f I;
KM Der f II; antiallergenic; immunostimulant; house dust mite allergy;
KM T-cell epitope.
XX
OS Dermatophagoides pteronyssinus.
XX
PN US6268491-B1.
XX
PD 31-JUL-2001.
XX
PF 07-JUN-1995; 95US-00484296.
XX
PR 16-OCT-1991; 91US-00777859.
PR 08-MAY-1992; 92US-00881396.
PR 14-APR-1993; 93WO-US003471.
PR 14-APR-1994; 94US-00227772.
PR 19-MAY-1995; 95US-00445307.
XX
PA (IMMU-) IMMUNOLOGIC PHARM CORP.
XX
PI Garman RD, Greenstein JL, Kuo M, Rogers BL, Franzen HM, Chen X;
PI Evans S, Shaked Z;
XX
XX WPI; 2001-549074/61.
XX
PT Peptides comprising T cell groups of the major allergens from
PT Dermatophagoides (house dust mites), useful for treating house dust mite
PT allergy in humans, and for diagnosing sensitivity to house dust mite
PT protein allergens.
XX
PS Example 3; Fig 3; 158pp; English.
XX
CC The invention relates to an isolated peptide of the major protein
CC allergens of the genus Dermatophagoides, which comprises at least one T
CC cell group of a protein allergen from Der p (DP) I, DP II, Der f (DF) I
CC or DF II. The isolated peptide comprises at least two regions, each
CC region comprising at least one T cell group of a protein allergen of the

CC Genus Dermatophagoides. The regions are derived from the same or
 CC different protein allergens of the genus Dermatophagoides. The peptides
 CC are useful for treating house dust mite allergy in humans. The peptides
 CC are also useful for detecting or diagnosing sensitivity to house dust
 CC mite protein allergens. The present peptides have similar or enhanced
 CC therapeutic properties as the naturally-occurring allergen, but have
 CC reduced side effects, and increased solubility and stability. The present
 CC sequence represents an allergenic T-cell epitope containing peptide
 CC derived from the Dermatophagoides allergenic proteins

XX
 SQ Sequence 22 AA;

Query Match 100.0%; Score 19; DB 4; Length 22;
 Best Local Similarity 100.0%; Pred. No. 8.9e+02;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AAGV 4
 ||||
 Db 11 AAGV 14

RESULT 68
 AAR36414
 ID AAR36414 standard; peptide; 23 AA.
 XX
 AC AAR36414;
 XX
 DT 25-MAR-2003 (revised)
 DT 12-AUG-1993 (first entry)
 XX
 DE DPl-28.2(173-195) a Dermatophagoides protein allergen.
 XX
 KM T cell epitope; house dust mite; allergy; soluble; Der pI.
 XX
 OS Synthetic.
 XX
 PN WO9308279-A1.
 XX
 PD 29-APR-1993.
 XX
 PF 15-OCT-1992; 92WO-US008637.
 XX
 PR 16-OCT-1991; 91US-00777859.
 PR 08-MAY-1992; 92US-00861396.
 XX
 PA (IMMU-) IMMUNOLOGIC PHARM CORP.
 XX
 PI Garman RD, Greenstein JL, Kuo MC, Rogers BL;
 XX
 DR WPI; 1993-152472/18.
 XX
 PT Isolated peptide(s) of dermatophagoides protein allergens - for diagnosis
 PT and treatment of sensitivity to house dust mite.
 XX
 PS Claim 10; Fig 3; 176pp; English.

XX The peptide is one of a series of overlapping peptides synthesised by
 CC standard techniques to cover the whole Dermatophagoides pteronyssinus Der
 CC pI sequence. The T cell epitopes of the protein were mapped by detection
 CC of the peptide's ability to stimulate T cell activity. The peptides may
 CC be used for diagnosis and treatment of sensitivity to house dust mite
 CC allergens. When administered to house dust mite sensitive individuals,
 CC the peptides are capable of modifying the allergic response to the
 CC allergens. The peptides may be modified for e.g. increasing solubility,
 CC enhancing therapeutic or preventive efficacy or stability. See also
 CC AAR34686-700 and AAR36398-490. (Updated on 25-MAR-2003 to correct PN
 CC field.)

XX
 SQ Sequence 23 AA;

Query Match 100.0%; Score 19; DB 2; Length 23;
 Best Local Similarity 100.0%; Pred. No. 9.3e+02;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AAGV 4
 ||||
 Db 8 AAGV 11

RESULT 69
 AAR51762
 ID AAR51762 standard; protein; 23 AA.
 XX
 AC AAR51762;
 XX
 DT 01-FEB-1995 (first entry)
 DT 12-AUG-1993 (first entry)
 XX
 DE Der p I derived peptide, DP I-28.2(173-195).
 XX
 KM Group I; protein allergen; house dust mite; D. pteronyssinus; Der p I;
 KM homology; D. farinae; Der f I; group II; Der p II; Der f II; T-cell;
 KM epitopes; fusion peptides; antigenic fragments; substitution; deletion;
 KM addition; chemical synthesis; chemical cleavage; recombinant techniques;
 KM allergic response; immunoglobulin E; IgE; immunotherapy; anaphylaxis;
 KM IgE-mediated responses; anaphylaxis; lymphokine secretion profile; modify;
 KM T cell subpopulations; unresponsive; immune response; tolerance.

XX
 OS Dermatophagoides pteronyssinus.
 XX
 PN ZA9302677-A.
 XX
 PD 26-JAN-1994.
 XX
 PF 16-APR-1993; 93ZA-00002677.
 XX
 PR 16-APR-1993; 93ZA-00002677.
 XX
 PA (IMMU-) IMMUNOLOGIC PHARM CORP.
 XX
 PI Garman RD, Greenstein JL, Kuo M, Rogers BL;
 XX
 DR WPI; 1994-126807/15.
 XX
 PT Isolated and/or modified peptides comprising T-cell epitopes - of major
 PT protein allergens of genus Dermatophagoides, used to treat or diagnose
 PT sensitivity to house dust mites.
 XX
 PS Claim 28; Page 67; 154pp; English.

XX The sequences given in AAR51731-841 represent T-cell epitopes derived
 CC from the group I and II protein allergens from the house dust mite D.
 CC farinae and D. pteronyssinus, Der f I, Der f II, Der p I and Der p II
 CC respectively. The Der f II protein has a high homology having an
 CC identity of 88% with an identity of 81% between the two group I proteins
 CC (see also AAR51727-30). Fusion peptides may be produced which comprise at
 CC least two or these antigenic fragments. Each region of these fusion
 CC peptides may be derived from the same, or different, mite allergens. The
 CC antigenic fragments may be altered by substitution, deletion or addition
 CC to enhance their antigenicity. These peptides may be produced by chemical
 CC synthesis, chemical cleavage of the protein allergen or by recombinant
 CC techniques. These peptides, or the fusion peptides, when administered to
 CC a house dust mite sensitive individual, are capable of modifying the
 CC allergic response of the individual to the allergen. The peptides do not
 CC bind to immunoglobulin E (IgE), or bind IgE to a lesser extent than the
 CC full length protein allergen. This reduces the major complications of
 CC standard immunotherapy, which are IgE-mediated responses such as
 CC anaphylaxis. Exposure of mite allergic patients to these peptides may
 CC tolerate or anergise appropriate T cell subpopulations such that they
 CC become unresponsive to mite allergens and do not participate in mounting
 CC an immune response upon exposure. Administration of the peptides may also
 CC modify the lymphokine secretion profile as compared with exposure to the
 CC naturally occurring mite protein allergen

XX
 SQ Sequence 23 AA;

Query Match 100.0%; Score 19; DB 2; Length 23;

Best Local Similarity 100.0%; Pred. No. 9.3e+02; Indels 0; Gaps 0;
Matches 4; Conservative 0; Mismatches 0;

OY 1 AOGV 4
 |||
 8 AOGV 11
DB

RESULT 70

AAW37822
ID AAW37822 standard; peptide; 23 AA.

AC AAW37822;

XX 14-AUG-1998 (first entry)

DE Peptide derived from the heparin binding site of plasma fibrinonec tin.

XX Cell adhesion activity; heparin binding site; human;
KW plasma fibrinonec tin; inhibition; cancer metastasis.

XX Synthetic.

OS Homo sapiens.

XX EP837074-A2.

XX 22-APR-1998.

XX 18-SEP-1997; 97EP-00116293.

XX 19-SEP-1996; 96JP-00248247.

XX (HISM) HISAMITSU PHARM CO LTD.

XX Fukai F, Katayama T;

XX WPI; 1998-219072/20.

PT Peptide(s) that inhibit cell adhesion - comprising fragments of heparin-binding site of fibrinonec tin.

XX Example 1; Page 9; 21pp; English.

XX Synthetic peptides AAW37820-24 and AAW56673-80 have cell adhesion

XX inhibition activity. All the peptides were modified with maleimide-

XX activated Keyhole Limpet Haemocyanine in order to improve their

XX solubility. The peptides are derived from a part of the heparin binding

XX site of human plasma fibrinonec tin, the present sequence being derived

XX from residues 1669 to 1691. Peptide AAW56680 has the strongest cell

XX adhesion inhibition activity. The peptides are used for inhibiting cancer

XX metastasis

XX Sequence 23 AA;

XX Query Match 100.0%; Score 19; DB 2; Length 23;
Best Local Similarity 100.0%; Pred. No. 9.3e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AOGV 4
 |||
 15 AOGV 18
DB

RESULT 71
AAW71937
ID AAW71937 standard; peptide; 23 AA.

XX AAW71937;

XX 27-AUG-2003 (revised)

XX 25-MAR-2003 (revised)

XX 16-DEC-1998 (first entry)

DE Dermatophagoides Der p I protein peptide DpI-28.2.

XX genus Dermatophagoides; major protein allergen; T cell epitope; Der p I;
KW Der p II; Der f I; Der f II; house dust mite allergy.

XX Dermatophagoides.

XX US5820862-A.

XX 13-OCT-1998.

XX 07-JUN-1995; 95US-00482142.

XX 14-APR-1993; 93WO-US003471.

XX 14-APR-1994; 94US-00227772.

XX 19-MAY-1995; 95US-00445307.

XX (IMMU-) IMMULOGIC PHARM CORP.

XX Franzen HM, Kuo M, Evans S, Garman RD, Greenstein JL, Chen X;
PI Shaked Z, Rogers BL;

XX WPI; 1998-567590/48.

PT Dermatophagoides allergen peptides - useful for treating house dust mite

XX allergy.

XX Disclosure; Col 97-99; 155pp; English.

XX The present invention describes peptides for treating sensitivity to

XX house dust mite allergens from the genus Dermatophagoides. Peptides

XX within the scope of the invention comprise at least one T cell epitope,

XX or preferably at least two T cell epitopes of a protein allergen selected

XX from the allergens Der p I, Der p II, Der f I, or Der f II. The invention

XX also describes modified peptides having similar or enhanced therapeutic

XX properties as the corresponding, naturally occurring allergen, but having

XX reduced side effects. AAW71912 to AAW72000, and AAW72257 to AAW72330

XX represent peptides from the present invention. (Updated on 25-MAR-2003 to

XX correct PR field.) (Updated on 27-AUG-2003 to correct OS field.)

XX Sequence 23 AA;

XX Query Match 100.0%; Score 19; DB 2; Length 23;
Best Local Similarity 100.0%; Pred. No. 9.3e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AOGV 4
 |||
 8 AOGV 11
DB

RESULT 72
AAV50391
ID AAV50391 standard; peptide; 23 AA.

XX AAV50391;

XX 25-JAN-2000 (first entry)

XX Dermatophagoides sp major protein allergen Dp I-28.2.

XX Allergen; house dust mite; detection; sensitivity; T cell epitope;
KW screening; allergic disorder; asthma; rhinitis; ectopic dermatitis;
KW Der f I; Der p I; Der p II; Der f II.

XX Dermatophagoides sp.

XX US5968526-A.

XX 19-OCT-1999.

XX 07-JUN-1995; 95US-00478572.

PR 14-APR-1994; 94US-00227772.
 PR 12-APR-1995; 95MO-US004481.
 PR 19-MAY-1995; 95US-00445307.
 PA (IMMU-) IMMUNOLOGIC PHARM CORP.
 PI Garman RD, Greenstein JL, Rogers BL, Franzen HM, Shaked Z;
 PI Chen X, Evans S, Kuo M;
 XX WPI; 1999-590385/50.
 DR
 XX
 PT Screening individuals for allergic reactions to T cell epitopes of major
 PT allergens from house dust mites.
 XX
 PS Claim 1e'; Column 99-100; 158pp; English.
 XX
 CC This invention describes a novel method (I) for detecting whether an
 CC individual is sensitive to Dermatophagoides (house dust mites). The
 CC method involves detecting sensitivity to house dust mites in patients,
 CC comprising combining a blood sample from the individual with I or more
 CC isolated T cell epitopes of the protein allergens I and II (DP I) and
 CC (DP II) from Dermatophagoides (house dust mites). 32 T cell epitopes
 CC with varying, defined amino acids sequences (given in the specification)
 CC may be used in (I). The sample and allergens are combined under
 CC conditions appropriate for the binding of blood components with the
 CC polypeptides. The extent of binding is then indicative of the sensitivity
 CC of the patient to house dust mites. (I) may be used to screen individuals
 CC for sensitivity to Dermatophagoides (house dust mites). The house dust
 CC mite is a major cause of a variety of allergic disorders such as asthma,
 CC rhinitis and eczopic dermatitis. AAY50360-Y50542 and AAY50546-Y50555
 CC represent house dust mite allergen peptide fragments derived from Der p
 CC I, Der f II, Der f I and Der f II
 XX
 SQ Sequence 23 AA;
 QY
 Db 1 AAGV 4
 8 AAGV 11
 100.0%; Score 19; DB 2; Length 23;
 Best Local Similarity 100.0%; Pred. No. 9.3e+02;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 RESULT 73
 AAY36513
 ID AAY36513 standard; protein; 23 AA.
 XX
 AC AAY36513;
 XX
 DT 17-SEP-1999 (first entry)
 DX
 XX
 DE Fragment of human secreted protein encoded by gene 32.
 XX
 KW Human; secreted protein; cancer; tumour; developmental abnormality;
 KW foetal deficiency; blood disorder; immune system disorder; inflammation;
 KW autoimmune disease; allergy; Alzheimer's disease; cognitive disorder;
 KW schizophrēnia; arthritis; asthma; psoriasis; sepsis; skin disorder;
 KW atherosclerosis; diabetes; cardiovascular disorder; kidney disorder;
 KW digestive disorder; endocrine disorder; infection; AIDS.
 XX
 OS Homo sapiens.
 XX
 PN W09931117-A1.
 XX
 PD 24-JUN-1999.
 XX
 PF 17-DEC-1998; 98MO-US027059.
 XX
 PR 18-DEC-1997; 97US-0068006P.
 PR 18-DEC-1997; 97US-0068007P.
 PR 18-DEC-1997; 97US-0068008P.
 PR 18-DEC-1997; 97US-0068053P.

PR 18-DEC-1997; 97US-0068054P.
 PR 18-DEC-1997; 97US-0068055P.
 PR 18-DEC-1997; 97US-0068056P.
 PR 18-DEC-1997; 97US-0070923P.
 PR 19-DEC-1997; 97US-0068169P.
 PR 19-DEC-1997; 97US-0068365P.
 PR 19-DEC-1997; 97US-0068367P.
 PR 19-DEC-1997; 97US-0068368P.
 PR 19-DEC-1997; 97US-0068369P.
 XX
 PA (HUMA-) HUMAN GENOME SCI INC.
 XX
 PI Moore PA, Ruben SM, Carter KC, Shi Y, Rosen CA, Soppet DR;
 PI Kyaw H, Wei Y, Florence K, Duan RD, Florence C, Greene JM, Feng P;
 PI Ferrie AM, Yu G, Janat F, Ni J;
 XX WPI; 1999-418749/35.
 DR
 XX
 PT New isolated human genes encoding secreted polypeptides.
 PT
 PS Disclosure; Page 470; 537pp; English.
 XX
 CC AAY97916 to AAY98029 represent 110 isolated human secreted protein genes.
 CC AAY36224 to AAY36727 represent the secreted proteins encoded by the 110
 CC human genes. The genes and their corresponding secreted polypeptides are
 CC useful for preventing, treating or ameliorating medical conditions, e.g.
 CC by protein or gene therapy. Also pathological conditions can be diagnosed
 CC by determining the amount of the new polypeptides in a sample or by
 CC determining the presence of mutations in the new genes. Specific uses are
 CC described for each of the 110 genes, based on which tissues they are most
 CC highly expressed in, and include developing products for the diagnosis or
 CC treatment of cancer, tumours, developmental abnormalities and foetal
 CC deficiencies, blood disorders, diseases of the immune system, autoimmune
 CC diseases, inflammation, allergies, Alzheimer's and cognitive disorders,
 CC schizophrēnia, arthritis, asthma, psoriasis, sepsis, skin disorders,
 CC atherosclerosis, diabetes, cardiovascular disorders, kidney disorders,
 CC digestive/endocrine disorders, infections and AIDS. The polypeptides are
 CC also useful for identifying their binding partners. The sequences given
 CC in AAY97907 to AAY97915 and AAY36223 are used in the exemplification of
 CC the present invention
 XX
 SQ Sequence 23 AA;
 QY
 Db 1 AAGV 4
 3 AAGV 6
 100.0%; Score 19; DB 2; Length 23;
 Best Local Similarity 100.0%; Pred. No. 9.3e+02;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 RESULT 74
 AAU18994
 ID AAU18994 standard; peptide; 23 AA.
 XX
 AC AAU18994;
 XX
 DT 04-DEC-2001 (first entry)
 DX
 XX
 DE T-cell epitope containing peptide DPL-28.2.
 XX
 KW House dust mite; allergenic peptide; Der p I; Der p II; Der f I;
 KW Der f II; antiallergenic; immunostimulant; house dust mite allergy;
 KW T-cell epitope.
 XX
 OS Dermatophagoides pteronyssinus.
 XX
 PN US6268491-B1.
 XX
 PD 31-JUN-2001.
 XX
 PF 07-JUN-1995; 95US-00484296.

XX 16-OCT-1991; 91US-00777859.
 PR 08-MAY-1992; 92US-00881396.
 PR 14-APR-1993; 93MO-US003471.
 PR 14-APR-1994; 94US-00227772.
 PR 19-MAY-1995; 95US-00445307.
 XX (IMMU-) IMMUNOLOGIC PHARM CORP.
 PI Garman RD, Greenstein JL, Kuo M, Rogers BL, Franzen HM, Chen X,
 PI Evans S, Shaked Z;
 DR WPI, 2001-549074/61.
 XX Peptides comprising T cell groups of the major allergens from
 PT Dermatophagoides (house dust mites), useful for treating house dust mite
 PT allergy in humans, and for diagnosing sensitivity to house dust mite
 PT protein allergens.
 XX Claim 1; Fig 3; 158pp; English.
 CC The invention relates to an isolated peptide of the major protein
 CC allergens of the genus Dermatophagoides, which comprises at least one T
 CC cell group of a protein allergen from Der p (DP) I, DP II, Der f (DF) I
 CC or DF II. The isolated peptide comprises at least two regions, each
 CC region comprising at least one T cell group of a protein allergen of the
 CC genus Dermatophagoides. The regions are derived from the same or
 CC different protein allergens of the genus Dermatophagoides. The peptides
 CC are useful for treating house dust mite allergy in humans. The peptides
 CC are also useful for detecting or diagnosing sensitivity to house dust
 CC mite protein allergens. The present peptides have similar or enhanced
 CC therapeutic properties as the naturally-occurring allergen, but have
 CC reduced side effects, and increased solubility and stability. The present
 CC sequence represents an allergenic T-cell epitope containing peptide
 CC derived from the Dermatophagoides allergenic proteins
 XX
 SQ Sequence 23 AA;
 Query Match 100.0%; Score 19; DB 4; Length 23;
 Best Local Similarity 100.0%; Pred. No. 9.3e+02;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 ACGV 4
 Db 8 ACGV 11
 RESULT 75
 ADA12069
 ID ADA12069 standard; protein; 23 AA.
 XX
 AC ADA12069;
 XX
 DT 06-NOV-2003 (first entry)
 XX
 DE Human novel secreted protein associated polypeptide #339.
 XX
 KW cancer; inflammation; immune disorder; neurological disorder;
 KW blood clotting disorder; food additive; food preservative;
 KW storage capability; fat content; nutritional component; human;
 KW secreted protein.
 XX
 OS Homo sapiens.
 XX
 PN US2003055236-A1.
 XX
 PD 20-MAR-2003.
 XX
 PF 14-MAR-2002; 2002US-00097065.
 XX
 PR 18-DEC-1997; 97US-0068006P.
 PR 18-DEC-1997; 97US-0068007P.
 PR 18-DEC-1997; 97US-0068008P.

PR 18-DEC-1997; 97US-0068053P.
 PR 18-DEC-1997; 97US-0068054P.
 PR 18-DEC-1997; 97US-0068057P.
 PR 18-DEC-1997; 97US-0068064P.
 PR 18-DEC-1997; 97US-0070923P.
 PR 19-DEC-1997; 97US-0068169P.
 PR 19-DEC-1997; 97US-0068365P.
 PR 19-DEC-1997; 97US-0068367P.
 PR 19-DEC-1997; 97US-0068368P.
 PR 19-DEC-1997; 97US-0068369P.
 PR 17-DEC-1998; 98MO-US027059.
 PR 17-JUN-1999; 99US-00334595.
 XX
 PA (HUMA-) HUMAN GENOME SCI INC.
 XX
 XX Moore PA, Ruben SM, Carter KC, Shi Y, Rosen CA, Soppet DR;
 PI Kyaw H, Wei Y, Florence KA, Duan DR, Florence C, Greene JM, Feng P;
 PI Ferlie AM, Yu G, Janat F, Ni J;
 XX WPI, 2003-567105/53.
 DR
 XX
 PS New secreted HKABT24 nucleic acid molecules and polypeptides, useful for
 PT preventing, treating, or ameliorating a medical condition, such as
 PT cancer, inflammation, immune disorders, neurological and blood clotting
 PT disorders.
 XX
 PS Disclosure; Page 58; 118pp; English.
 CC The invention relates to an isolated HKABT24 nucleic acid molecule. The
 CC polypeptides, nucleic acids and antibodies are useful for diagnosing a
 CC pathological condition or a susceptibility to a pathological condition,
 CC for preventing, treating, or ameliorating a medical condition, such as
 CC cancer, inflammation and other immune disorders, neurological and blood
 CC clotting disorders. The nucleic acids are also useful for chromosome
 CC identification, radiation hybrid mapping or long-range restriction
 CC mapping. The polypeptides and antibodies are useful for providing
 CC immunological probes for differential identification of the tissues
 CC immunohistochemistry assays. The polypeptide, polynucleotide, agonist or
 CC antagonist may also be used as a food additive or preservative to
 CC increase or decrease storage capabilities, fat content or other
 CC nutritional components. The present sequence represents the amino acid
 CC sequence of a novel human secreted protein associated polypeptide. Note:
 CC The sequence data for this patent did not form part of the printed
 CC specification but was obtained in electronic format directly from USPTO
 CC at seqdata.uspto.gov.uk/sequence.html?DocID=20030055236.
 XX
 SQ Sequence 23 AA;
 Query Match 100.0%; Score 19; DB 6; Length 23;
 Best Local Similarity 100.0%; Pred. No. 9.3e+02;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 ACGV 4
 Db 3 ACGV 6
 RESULT 76
 ABP46165
 ID ABP46165 standard; peptide; 24 AA.
 XX
 AC ABP46165;
 XX
 DT 19-AUG-2002 (first entry)
 XX
 DE Human Blys binding scFv VH CDR3 SEQ ID 2176.
 XX
 KW Blys; B lymphocyte stimulator; TNF superfamily; human; cytostatic;
 KW tumour necrosis factor; B cell proliferation; B cell differentiation;
 KW immunosuppressive; immunostimulant; immunomodulatory; antineoplastic;
 KW antiAIDS; vaccine; cancer; immune; autoimmune disorder; immunodeficiency;
 KW systemic lupus erythematosus; rheumatoid arthritis; CVID; AIDS;
 KW common variable immunodeficiency; acquired immunodeficiency syndrome.

XX Homo sapiens.
OS
XX
XX WO200202641-A1.
PN
XX
XX 10-JAN-2002.
PD
XX
XX 15-JUN-2001; 2001WO-US019110.
PF
XX
XX 16-JUN-2000; 2000US-0212210P.
PR
XX 17-OCT-2000; 2000US-0240816P.
PR
XX 16-MAR-2001; 2001US-0276248P.
PR
XX 21-MAR-2001; 2001US-0277379P.
PR
XX 25-MAY-2001; 2001US-0293499P.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
PA (CAMB-) CAMBRIDGE ANTIBODY TECHNOLOGY.
XX
XX Ruben SM, Barash SC, Choi GH, Vaughan T, Hilbert D;
PI
XX WPI; 2002-114799/15.
DR
XX
XX Antibodies against B lymphocyte stimulating polypeptides, useful for the
PT diagnosis and treatment of cancers and immune disorders.
XX
XX Claim 2; Page 2945; 3148pp; English.
PS
XX This invention describes novel antibodies that immunospecifically bind to
CC B lymphocyte Stimulator (BLyS) polypeptides. BLyS is a member of the
CC tumour necrosis factor (TNF) super family and induces B cell
CC proliferation and differentiation. The antibodies of the invention have
CC cytostatic, immunosuppressive, immunostimulant, immunomodulatory,
CC antineoplastic and antiAIDS activity and can be used in vaccines to
CC inhibit the expression and activity of BLyS. The antibodies bind to BLyS
CC and so may be used to detect and quantitate the presence of BLyS in
CC biological samples and may be used in this way to diagnose disease
CC associated with aberrant expression of BLyS. They may also be
CC administered to treat diseases associated with aberrant BLyS expression
CC and activity such as cancer, immune, and autoimmune disorders and
CC diseases, e.g. systemic lupus erythematosus, rheumatoid arthritis,
CC immunodeficiency (e.g. common variable immunodeficiency (CVID) and
CC acquired immunodeficiency syndrome (AIDS)). ABP43990-ABP47228 represent
CC the antibodies and fragments of the antibodies described in the method of
CC the invention
XX
XX Sequence 24 AA;
SQ
XX
XX Query Match 100.0%; Score 19; DB 5; Length 24;
Best Local Similarity 100.0%; Pred. No. 9.7e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 ACGV 4
Db 17 ACGV 20
|||||
17 ACGV 20
RESULTS 77
ABP46958
ID ABP46958 standard; peptide; 24 AA.
XX
XX ABP46958;
AC
XX
XX 19-AUG-2002 (first entry)
DT
XX
XX Human BLyS binding scFv VH CDR3 SEQ ID 2969.
DE
XX
XX BLyS: B lymphocyte stimulator; TNF superfamily; human; cytostatic;
KM tumour necrosis factor; B cell proliferation; B cell differentiation;
KM immunosuppressive; immunostimulant; immunomodulatory; antineoplastic;
KM antiAIDS; vaccine; cancer; immune; autoimmune disorder; immunodeficiency;
KM systemic lupus erythematosus; rheumatoid arthritis; CVID; AIDS;
XX common variable immunodeficiency; acquired immunodeficiency syndrome.
XX

OS Homo sapiens.
XX
XX WO200202641-A1.
PN
XX
XX 10-JAN-2002.
PD
XX
XX 15-JUN-2001; 2001WO-US019110.
PF
XX
XX 16-JUN-2000; 2000US-0212210P.
PR
XX 17-OCT-2000; 2000US-0240816P.
PR
XX 16-MAR-2001; 2001US-0276248P.
PR
XX 21-MAR-2001; 2001US-0277379P.
PR
XX 25-MAY-2001; 2001US-0293499P.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
PA (CAMB-) CAMBRIDGE ANTIBODY TECHNOLOGY.
XX
XX Ruben SM, Barash SC, Choi GH, Vaughan T, Hilbert D;
PI
XX WPI; 2002-114799/15.
DR
XX
XX Antibodies against B lymphocyte stimulating polypeptides, useful for the
PT diagnosis and treatment of cancers and immune disorders.
XX
XX Claim 2; Page 3088-3089; 3148pp; English.
PS
XX This invention describes novel antibodies that immunospecifically bind to
CC B lymphocyte Stimulator (BLyS) polypeptides. BLyS is a member of the
CC tumour necrosis factor (TNF) super family and induces B cell
CC proliferation and differentiation. The antibodies of the invention have
CC cytostatic, immunosuppressive, immunostimulant, immunomodulatory,
CC antineoplastic and antiAIDS activity and can be used in vaccines to
CC inhibit the expression and activity of BLyS. The antibodies bind to BLyS
CC and so may be used to detect and quantitate the presence of BLyS in
CC biological samples and may be used in this way to diagnose disease
CC associated with aberrant expression of BLyS. They may also be
CC administered to treat diseases associated with aberrant BLyS expression
CC and activity such as cancer, immune, and autoimmune disorders and
CC diseases, e.g. systemic lupus erythematosus, rheumatoid arthritis,
CC immunodeficiency (e.g. common variable immunodeficiency (CVID) and
CC acquired immunodeficiency syndrome (AIDS)). ABP43990-ABP47228 represent
CC the antibodies and fragments of the antibodies described in the method of
CC the invention
XX
XX Sequence 24 AA;
SQ
XX
XX Query Match 100.0%; Score 19; DB 5; Length 24;
Best Local Similarity 100.0%; Pred. No. 9.7e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 ACGV 4
Db 17 ACGV 20
|||||
17 ACGV 20
RESULTS 78
ADG96992
ID ADG96992 standard; peptide; 24 AA.
XX
XX ADG96992;
AC
XX
XX 11-MAR-2004 (first entry)
DT
XX
XX scFv VHCDR3 peptide that immunospecifically binds BLyS SeqID 2176.
DE
XX
XX antibody; B lymphocyte stimulator; BLyS; tumour necrosis factor;
KM B cell proliferation; differentiation; scFv; myasthenia gravis;
KM multiple sclerosis; asthma; rheumatoid arthritis; AIDS; leukaemia;
KM carcinoma; lymphoma; antineoplastic; antiarthritic; neuroprotective;
KM antiinflammatory; antiaesthetic; antiallergic; cytostatic.
XX
XX Unidentified.
XX

PN WO2003055979-A2.
 XX
 PD 10-JUL-2003.
 XX
 PF 14-NOV-2002; 2002WO-US036496.
 XX
 PR 16-NOV-2001; 2001US-0331469P.
 XX
 PR 19-DEC-2001; 2001US-0340817P.
 XX
 PA (HUMA-) HUMAN GENOME SCI INC.
 XX
 PI Ruben SM, Barash SC, Choi GH, Vaughan TJ, Hilbert D;
 XX
 DR WPI; 2003-505530/47.
 XX
 PT Novel antibody that immunospecifically binds to a B lymphocyte stimulator
 PT (Blys), useful for detecting and treating diseases or disorders e.g.
 PT rheumatoid arthritis, asthma and leukemia.
 XX
 PS Example 1; SEQ ID NO 2176; 394pp; English.
 XX
 CC This invention relates to novel antibodies that immunospecifically bind
 CC to B lymphocyte stimulator (Blys). The Blys gene has been mapped to
 CC chromosome 13q34 and encodes a protein that is a member of the tumour
 CC necrosis factor superfamily and induces both in vivo and in vitro B cell
 CC proliferation and differentiation. Specifically, it refers to single
 CC chain antibody molecules (scFvs) derived, preferably, from the variable
 CC heavy CDR3 region that immunospecifically bind to a polypeptide, or
 CC fragment thereof, of either human, murine, rat or monkey Blys. The
 CC present invention refers to the use of such antibodies in various methods
 CC for the detection, diagnosis and prognosis of diseases related to the
 CC aberrant expression or inappropriate function of Blys or its receptor. As
 CC such, these compositions are useful for identifying immune disorders
 CC including myasthenia gravis and multiple sclerosis, inflammatory
 CC disorders e.g. asthma and rheumatoid arthritis, infectious diseases such
 CC as AIDS and proliferative disorders including leukaemia, carcinoma and
 CC lymphoma. Accordingly, they can be described as exhibiting various
 CC activities such as antineumatic, antiarthritic, neuroprotective,
 CC antiinflammatory, antiaesthetic, antiallergic and cystostatic. This
 CC peptide sequence is a single chain antibody variable heavy CDR3 peptide
 CC that immunospecifically binds Blys of the invention.
 XX
 SQ Sequence 24 AA;
 Query Match 100.0%; Score 19; DB 7; Length 24;
 Best Local Similarity 100.0%; Pred. No. 9.7e+02;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 AOGV 4
 DB 17 AOGV 20
 1 1 1 1 1
 17 AOGV 20
 RESULT 79
 ADG97785
 ID ADG97785 standard; peptide; 24 AA.
 XX
 AC ADG97785;
 XX
 DT 11-MAR-2004 (first entry)
 XX
 DB scFv VHCDR3 peptide that immunospecifically binds Blys SegID 2969.
 XX
 KW antibody; B lymphocyte stimulator; Blys; tumour necrosis factor;
 KW B cell proliferation; differentiation; scFv; myasthenia gravis;
 KW multiple sclerosis; asthma; rheumatoid arthritis; AIDS; leukaemia;
 KW carcinoma; lymphoma; antineumatic; antirheumatic; antiallergic; neuroprotective;
 KW antiinflammatory; antiaesthetic; antiallergic; cystostatic.
 XX
 OS Unidentified.
 XX
 PN WO2003055979-A2.
 XX

PD 10-JUL-2003.
 XX
 PF 14-NOV-2002; 2002WO-US036496.
 XX
 PR 16-NOV-2001; 2001US-0331469P.
 XX
 PR 19-DEC-2001; 2001US-0340817P.
 XX
 PA (HUMA-) HUMAN GENOME SCI INC.
 XX
 PI Ruben SM, Barash SC, Choi GH, Vaughan TJ, Hilbert D;
 XX
 DR WPI; 2003-505530/47.
 XX
 PT Novel antibody that immunospecifically binds to a B lymphocyte stimulator
 PT (Blys), useful for detecting and treating diseases or disorders e.g.
 PT rheumatoid arthritis, asthma and leukemia.
 XX
 PS Example 1; SEQ ID NO 2969; 394pp; English.
 XX
 CC This invention relates to novel antibodies that immunospecifically bind
 CC to B lymphocyte stimulator (Blys). The Blys gene has been mapped to
 CC chromosome 13q34 and encodes a protein that is a member of the tumour
 CC necrosis factor superfamily and induces both in vivo and in vitro B cell
 CC proliferation and differentiation. Specifically, it refers to single
 CC chain antibody molecules (scFvs) derived, preferably, from the variable
 CC heavy CDR3 region that immunospecifically bind to a polypeptide, or
 CC fragment thereof, of either human, murine, rat or monkey Blys. The
 CC present invention refers to the use of such antibodies in various methods
 CC for the detection, diagnosis and prognosis of diseases related to the
 CC aberrant expression or inappropriate function of Blys or its receptor. As
 CC such, these compositions are useful for identifying immune disorders
 CC including myasthenia gravis and multiple sclerosis, inflammatory
 CC disorders e.g. asthma and rheumatoid arthritis, infectious diseases such
 CC as AIDS and proliferative disorders including leukaemia, carcinoma and
 CC lymphoma. Accordingly, they can be described as exhibiting various
 CC activities such as antineumatic, antiarthritic, neuroprotective,
 CC antiinflammatory, antiaesthetic, antiallergic and cystostatic. This
 CC peptide sequence is a single chain antibody variable heavy CDR3 peptide
 CC that immunospecifically binds Blys of the invention.
 XX
 SQ Sequence 24 AA;
 Query Match 100.0%; Score 19; DB 7; Length 24;
 Best Local Similarity 100.0%; Pred. No. 9.7e+02;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 AOGV 4
 DB 17 AOGV 20
 1 1 1 1 1
 17 AOGV 20
 RESULT 80
 AAR36412
 ID AAR36412 standard; peptide; 25 AA.
 XX
 AC AAR36412;
 XX
 DT 25-MAR-2003 (revised)
 XX
 DT 12-AUG-1993 (first entry)
 XX
 DB DPT-27.1(161-185) a Dermatophagoides protein allergen.
 XX
 KW T cell epitope; house dust mite; allergy; soluble; Der p1.
 XX
 OS Synthetic.
 XX
 PN WO9308279-A1.
 XX
 PD 29-APR-1993.
 XX
 PF 15-OCT-1992; 92WO-US008637.
 XX
 PR 16-OCT-1991; 91US-00777859.
 XX

PR 08-MAY-1992; 92US-00881396.
XX
XX (IMMU-) IMMUNOLOGIC PHARM CORP.
XX Garman RD, Greenstein JL, Kuo MC, Rogers BL;
PI WPI; 1993-152472/18.
XX
XX Isolated peptide(s) of dermatophagoides protein allergens - for diagnosis
PT and treatment of sensitivity to house dust mite.
XX
XX Claim 10; Fig 3; 176pp; English.
XX
XX The peptide is one of a series of overlapping peptides synthesised by
CC standard techniques to cover the whole Dermatophagoides pteronyssinus Der
CC pI sequence. The T cell epitopes of the protein were mapped by detection
CC of the peptide's ability to stimulate T cell activity. The peptides may
CC be used for diagnosis and treatment of sensitivity to house dust mite
CC allergens. When administered to house dust mite sensitive individuals,
CC the peptides are capable of modifying the allergic response to the
CC allergens. The peptides may be modified for e.g. increasing solubility,
CC enhancing therapeutic or preventive efficacy or stability. See also
CC AAR34686-700 and AAR36398-490. (Updated on 25-MAR-2003 to correct PN
CC field.)
XX
SQ Sequence 25 AA;

Query Match 100.0%; Score 19; DB 2; Length 25;
Best Local Similarity 100.0%; Pred. No. 1e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
Db 20 AOGV 23

RESULT 81
AAR51760
ID AAR51760 standard; protein; 25 AA.
XX
XX AAR51760;
XX
DT 01-FEB-1995 (first entry)
XX
XX Der p I derived peptide. DP I-27.1(161-185).
XX
XX Group I; protein allergen; house dust mite; D. pteronyssinus; Der p I;
XX homology; D. farinae; Der f I; group II; Der p II; Der f II; T-cell;
XX epitopes; fusion peptides; antigenic fragments; substitution; deletion;
XX addition; chemical synthesis; chemical cleavage; recombinant techniques;
XX allergic response; immunoglobulin E; IgE; immunotherapy; anaphylaxis;
XX IgE-mediated responses; anergise; lymphokine secretion profile; modify;
XX T cell subpopulations; unresponsive; immune response; tolerance.
XX
XX Dermatophagoides pteronyssinus.
XX
XX ZAA9302677-A.
XX
XX 26-JAN-1994.
XX
XX 16-APR-1993; 93ZA-00002677.
XX
XX 16-APR-1993; 93ZA-00002677.
XX
XX (IMMU-) IMMUNOLOGIC PHARM CORP.
XX
XX Garman RD, Greenstein JL, Kuo M, Rogers BL;
XX
XX WPI; 1994-126807/15.
XX
XX Isolated and/or modified peptides comprising T-cell epitopes - of major
XX protein allergens of genus Dermatophagoides, used to treat or diagnose
XX sensitivity to house dust mites.

XX
XX Claim 28; Page 66; 154pp; English.
XX
XX The sequences given in AAR51731-841 represent T-cell epitopes derived
CC from the group I and II protein allergens from the house dust mite D.
CC farinae and D. pteronyssinus, Der f I, Der f II, Der p I and Der p II
CC respectively. The Der f II proteins show high homology having an
CC identity of 88% with an identity of 81% between the two group I proteins
CC (see also AAR51727-30). Fusion peptides may be produced which comprise at
CC least two or these antigenic fragments. Each region of these fusion
CC peptides may be derived from the same, or different, mite allergens. The
CC antigenic fragments may be altered by substitution, deletion or addition
CC to enhance their antigenicity. These peptides may be produced by chemical
CC synthesis, chemical cleavage of the protein allergen or by recombinant
CC techniques. These peptides, or the fusion peptides, when administered to
CC a house dust mite sensitive individual, are capable of modifying the
CC allergic response of the individual to the allergen. The peptides do not
CC bind to immunoglobulin E (IgE), or bind IgE to a lesser extent than the
CC full length protein allergen. This reduces the major complications of
CC standard immunotherapy, which are IgE-mediated responses such as
CC anaphylaxis. Exposure of mite allergic patients to these peptides may
CC tolerate or anergise appropriate T cell subpopulations such that they
CC become unresponsive to mite allergens and do not participate in mounting
CC an immune response upon exposure. Administration of the peptides may also
CC modify the lymphokine secretion profile as compared with exposure to the
CC naturally occurring mite protein allergen
XX
SQ Sequence 25 AA;

Query Match 100.0%; Score 19; DB 2; Length 25;
Best Local Similarity 100.0%; Pred. No. 1e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
Db 20 AOGV 23

RESULT 82
AAW71935
ID AAW71935 standard; peptide; 25 AA.
XX
XX AAW71935;
XX
XX 27-AUG-2003 (revised)
XX
XX 25-MAR-2003 (revised)
XX
XX 16-DEC-1998 (first entry)
XX
XX Dermatophagoides Der p I protein peptide DPI-27.1.
XX
XX genus Dermatophagoides; major protein allergen; T cell epitope; Der p I;
XX Der p II; Der f I; Der f II; house dust mite allergy.
XX
XX Dermatophagoides.
XX
XX US5820862-A.
XX
XX 13-OCT-1998.
XX
XX 07-JUN-1995; 95US-00482142.
XX
XX 14-APR-1993; 93WO-US003471.
XX
XX 14-APR-1994; 94US-00227772.
XX
XX 19-MAY-1995; 95US-00445307.
XX
XX (IMMU-) IMMUNOLOGIC PHARM CORP.
XX
XX Franzen HM, Kuo M, Evans S, Garman RD, Greenstein JL, Chen X;
XX
XX Shaked Z, Rogers BL;
XX
XX WPI; 1998-567590/48.
XX
XX Dermatophagoides allergen peptides - useful for treating house dust mite

PT allergy.
XX
XX Discloure; Col 97-98; 155pp; English.
XX
CC The present invention describes peptides for treating sensitivity to
CC house dust mite allergens from the genus Dermatophagoides. Peptides
CC within the scope of the invention comprises at least one T cell epitope,
CC or preferably at least two T cell epitopes of a protein allergen selected
CC from the allergens Der p I, Der p II, Der f I, or Der f II. The invention
CC also describes modified peptides having similar or enhanced therapeutic
CC properties as the corresponding, naturally occurring allergen, but having
CC reduced side effects. AAM71912 to AAM72000, and AAM72257 to AAM72330
CC represent peptides from the present invention. (Updated on 25-MAR-2003 to
CC correct PR field.) (Updated on 27-AUG-2003 to correct OS field.)
XX
SQ Sequence 25 AA;
XX
Query Match 100.0%; Score 19; DB 2; Length 25;
Best Local Similarity 100.0%; Pred. No. 1e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AOGV 4
DB 20 AOGV 23
XX
RESULT 83
AAY50389
ID AAY50389 standard; peptide; 25 AA.
XX
AC AAY50389;
XX
DT 25-JAN-2000 (first entry)
XX
DE Dermatophagoides sp major protein allergen DP I-27.1.
XX
KW Allergen; house dust mite; detection; sensitivity; T cell epitope;
KW screening; allergic disorder; asthma; rhinitis; eczopic dermatitis;
KW Der f I; Der p I; Der p II; Der f II.
XX
OS Dermatophagoides sp.
XX
PN US5968526-A.
XX
PD 19-OCT-1999.
XX
PF 07-JUN-1995; 95US-00478572.
XX
PR 14-APR-1994; 94US-00237772.
PR 12-APR-1995; 95MO-US004481.
PR 19-MAY-1995; 95US-00445307.
XX
PA (IMMU-) IMMUNOLOGIC PHARM CORP.
XX
PI Garman RD, Greenstein JL, Rogers BL, Franzen HM, Shaked Z;
PI Chen X, Evans S, Kuo M;
XX
DR WPI; 1999-590385/50.
XX
PT Screening individuals for allergic reactions to T cell epitopes of major
PT allergens from house dust mites.
XX
PS Claim 1c; Column 99-100; 158pp; English.
XX
CC This invention describes a novel method (I) for detecting whether an
CC individual is sensitive to Dermatophagoides (house dust mites). The
CC method involves detecting sensitivity to house dust mites in patients,
CC comprising combining a blood sample from the individual with I or more
CC isolated T cell epitopes of the protein allergens I and II (DP I) and
CC (DP II) from Dermatophagoides (house dust mites). 32 T cell epitopes
CC with varying, defined amino acids sequences (given in the specification)
CC may be used in (I). The sample and allergens are combined under
CC conditions appropriate for the binding of blood components with the

CC polypeptides. The extent of binding is then indicative of the sensitivity
CC of the patient to house dust mites. (I) may be used to screen individuals
CC for sensitivity to Dermatophagoides (house dust mites). The house dust
CC mite is a major cause of a variety of allergic disorders such as asthma,
CC rhinitis and eczopic dermatitis. AAY50360-Y50542 and AAY50546-Y50555
CC represent house dust mite allergen peptide fragments derived from Der p
CC I, Der f II, Der f I and Der f II
XX
SQ Sequence 25 AA;
XX
Query Match 100.0%; Score 19; DB 2; Length 25;
Best Local Similarity 100.0%; Pred. No. 1e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AOGV 4
DB 20 AOGV 23
XX
RESULT 84
AAM21152
ID AAM21152 standard; protein; 25 AA.
XX
AC AAM21152;
XX
DT 12-OCT-2001 (first entry)
XX
DE Peptide #7586 encoded by probe for measuring cervical gene expression.
XX
KW Probe; human; microarray; gene expression; cervical epithelial cell;
KW cervical cancer.
XX
OS Homo sapiens.
XX
PN WO200157278-A2.
XX
PD 09-AUG-2001.
XX
PF 30-JAN-2001; 2001WO-US000670.
XX
PR 04-FEB-2000; 2000US-0180312P.
PR 26-MAY-2000; 2000US-0207456P.
PR 30-JUN-2000; 2000US-00608408.
PR 03-AUG-2000; 2000US-00632366.
PR 21-SEP-2000; 2000US-0234687P.
PR 27-SEP-2000; 2000US-0236359P.
PR 04-OCT-2000; 2000GB-00024263.
XX
PA (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX
DR WPI; 2001-488901/53.
XX
PT Human genome-derived single exon nucleic acid probes useful for analyzing
PT gene expression in human cervical epithelial cells.
XX
PS Claim 27; SEQ ID NO 25978; 487pp; English.
XX
CC The present invention relates to human single exon nucleic acid probes
CC (SENP; see AAI10068-AA128459). The present sequence is a peptide encoded
CC by one such probe. The SENPs are derived from human HeLa cells. The SENPs
CC can be used to produce a single exon microarray, which can be used for
CC measuring human gene expression in a sample derived from human cervical
CC epithelial cells. By measuring gene expression, the probes are therefore
CC useful in grading and/or staging of diseases of the cervix, notably
CC cervical cancer. Note: The sequence data for this patent did not form
CC part of the printed specification, but was obtained in electronic format
CC directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 25 AA;
XX
Query Match 100.0%; Score 19; DB 4; Length 25;

Best Local Similarity 100.0%; Pred. No. 1e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AOGV 4
|||
Db 16 AOGV 19

RESULT 85

AAU18992
ID AAU18992 standard; peptide; 25 AA.

AC AAU18992;

DT 04-DEC-2001 (first entry)

XX T-cell epitope containing peptide DPI-27.1.

XX House dust mite; allergenic peptide; Der p I; Der p II; Der f I;

KM Der f II; antiallergenic; immunostimulant; house dust mite allergy;

KM T-cell epitope.

OS Dermacophagoides pteronyssinus.

PN US6268491-B1.

FD 31-JUL-2001.

PF 07-JUN-1995; 95US-00484296.

XX 16-OCT-1991; 91US-00777859.

PR 08-MAY-1992; 92US-00881396.

PR 14-APR-1993; 93MO-US0003471.

PR 14-APR-1994; 94US-00227772.

PR 19-MAY-1995; 95US-00445307.

PA (IMMU-) IMMUNOLOGIC PHARM CORP.

XX Garman RD, Greenstein JL, Kuo M, Rogers BL, Franzen HM, Chen X;

PI Evans S, Shaked Z;

XX WPI; 2001-549074/61.

XX Peptides comprising T cell groups of the major allergens from

PT Dermacophagoides (house dust mite), useful for treating house dust mite

PT allergy in humans, and for diagnosing sensitivity to house dust mite

PT protein allergens.

PS Claim 1; Fig 3; 158pp; English.

XX The invention relates to an isolated peptide of the major protein

CC allergens of the genus Dermacophagoides, which comprises at least one T

CC cell group of a protein allergen from Der p (DP) I, DP II, Der f (DF) I

CC or DF II. The isolated peptide comprises at least two regions, each

CC region comprising at least one T cell group of a protein allergen of the

CC genus Dermacophagoides. The regions are derived from the same or

CC different protein allergens of the genus Dermacophagoides. The peptides

CC are useful for treating house dust mite allergy in humans. The peptides

CC are also useful for detecting or diagnosing sensitivity to house dust

CC mite protein allergens. The present peptides have similar or enhanced

CC therapeutic properties as the naturally-occurring allergen, but have

CC reduced side effects, and increased solubility and stability. The present

CC sequence represents an allergenic T-cell epitope containing peptide

CC derived from the Dermacophagoides allergenic proteins

CC

XX Sequence 25 AA;

XX

XX Query Match 100.0%; Score 19; DB 4; Length 25;

XX Best Local Similarity 100.0%; Pred. No. 1e+03;

XX Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AOGV 4
|||

Db 20 AOGV 23

RESULT 86

ABB43470
ID ABB43470 standard; peptide; 25 AA.

AC ABB43470;

DT 04-FEB-2002 (first entry)

XX Peptide #10976 encoded by human foetal liver single exon probe.

XX Human; foetal liver; gene expression; single exon nucleic acid probe.

OS Homo sapiens.

PN W0200157277-A2.

PD 09-AUG-2001.

XX 30-JAN-2001; 2001WO-US000669.

PR 04-FEB-2000; 2000US-0180312P.

PR 26-MAY-2000; 2000US-0207456P.

PR 30-JUN-2000; 2000US-00608408.

PR 03-AUG-2000; 2000US-00632366.

PR 21-SEP-2000; 2000US-0234687P.

PR 27-SEP-2000; 2000US-0236359P.

PR 04-OCT-2000; 2000GB-00024263.

PA (MOLE-) MOLECULAR DYNAMICS INC.

XX Penn SG, Hanzel DK, Chen W, Rank DR;

XX WPI; 2001-483447/52.

XX

XX Claim 27; SEQ ID NO 36105; 639pp + Sequence Listing; English.

CC The invention relates to a single exon nucleic acid probe for measuring

CC human gene expression in a sample derived from human foetal liver. The

CC single exon nucleic acid probes may be used for predicting, measuring and

CC displaying gene expression in samples derived from human foetal liver. The

CC present sequence is a peptide encoded by a single exon nucleic acid probe

CC of the invention. Note: The sequence data for this patent did not form

CC part of the printed specification, but was obtained in electronic format

CC directly from WIPO at ftp.wipo.int/pub/published_pct_sequences

XX

XX Sequence 25 AA;

XX

XX Query Match 100.0%; Score 19; DB 4; Length 25;

XX Best Local Similarity 100.0%; Pred. No. 1e+03;

XX Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AOGV 4
|||

XX

XX RESULT 87

XX AAM37363

XX ID AAM37363 standard; protein; 25 AA.

XX

XX AAM37363;

XX

XX 17-OCT-2001 (first entry)

XX Peptide #11400 encoded by probe for measuring placental gene expression.

XX

XX Probe; microarray; human; placenta; antenatal diagnosis;

```

KW genetic disorder.
XX
XX Homo sapiens.
XX
XX WO200157272-A2.
XX
XX 09-AUG-2001.
XX
XX 30-JAN-2001; 2001WO-US000663.
XX
XX 04-FEB-2000; 2000US-0180312P.
XX
XX 26-MAY-2000; 2000US-0207456P.
XX
XX 30-JUN-2000; 2000US-00608408.
XX
XX 03-AUG-2000; 2000US-00632366.
XX
XX 21-SEP-2000; 2000US-0234687P.
XX
XX 27-SEP-2000; 2000US-0236359P.
XX
XX 04-OCT-2000; 2000GB-00024263.
XX
XX (MOLE-) MOLECULAR DYNAMICS INC.
XX
XX Penn SG, Hanzel DK, Chen W, Rank DR;
XX
XX WPI; 2001-488897/53.
XX
XX Human genome-derived single exon nucleic acid probes useful for analyzing
XX gene expression in human placenta.
XX
XX Claim 27; SEQ ID NO 37632; 654bp; English.
XX
XX The present invention relates to single exon nucleic acid probes (SENP;
XX see AA131315-AA157546). The present sequence is a peptide encoded by one
XX such probe. The probes are useful for producing a microarray for
XX predicting, measuring and displaying gene expression in samples derived
XX from human placenta. The probes are useful for antenatal diagnosis of
XX human genetic disorders
XX
XX Sequence 25 AA;
XX
XX Query Match 100.0%; Score 19; DB 4; Length 25;
XX Best Local Similarity 100.0%; Pred. No. 1e+03;
XX Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1 ACGV 4
XX ||||
XX 16 ACGV 19
XX
XX Db
XX
XX RESULT 88
XX AAM77220
XX ID AAM77220 standard; protein; 25 AA.
XX
XX AAM77220;
XX
XX DT 06-NOV-2001 (first entry)
XX
XX Human bone marrow expressed probe encoded protein SEQ ID NO: 37526.
XX
XX Human bone marrow expressed exon; gene expression analysis; probe;
XX microarray; cancer; leukaemia; lymphoma; myeloma.
XX
XX Homo sapiens.
XX
XX WO200157276-A2.
XX
XX 09-AUG-2001.
XX
XX 30-JAN-2001; 2001WO-US000668.
XX
XX 04-FEB-2000; 2000US-0180312P.
XX
XX 26-MAY-2000; 2000US-0207456P.
XX
XX 30-JUN-2000; 2000US-00608408.
XX
XX 03-AUG-2000; 2000US-00632366.
XX
XX 21-SEP-2000; 2000US-0234687P.
XX
XX 27-SEP-2000; 2000US-0236359P.
XX
XX 04-OCT-2000; 2000GB-00024263.
XX
XX (MOLE-) MOLECULAR DYNAMICS INC.
XX
XX Penn SG, Hanzel DK, Chen W, Rank DR;
XX
XX WPI; 2001-488897/53.
XX
XX Human genome-derived single exon nucleic acid probes useful for analyzing
XX gene expression in human bone marrow.
XX
XX Example 4; SEQ ID NO 37526; 658bp + Sequence Listing; English.
XX
XX The present invention provides a number of single exon nucleic acid
XX probes which are derived from genomic sequences expressed in the human
XX bone marrow. They can be used to measure gene expression in bone marrow
XX samples, which may enable the improved diagnosis and treatment of cancers
XX such as lymphoma, leukaemia and myeloma. The present sequence is a
XX protein encoded by one of the probes of the invention
XX
XX Sequence 25 AA;
XX
XX Query Match 100.0%; Score 19; DB 4; Length 25;
XX Best Local Similarity 100.0%; Pred. No. 1e+03;
XX Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1 ACGV 4
XX ||||
XX 16 ACGV 19
XX
XX Db
XX
XX RESULT 89
XX AAM64402
XX ID AAM64402 standard; protein; 25 AA.
XX
XX AAM64402;
XX
XX DT 05-NOV-2001 (first entry)
XX
XX Human brain expressed single exon probe encoded protein SEQ ID NO: 36507.
XX
XX Human brain expressed exon; gene expression analysis; probe; microarray;
XX Alzheimer's disease; multiple sclerosis; schizophrenia; epilepsy; cancer.
XX
XX Homo sapiens.
XX
XX WO200157275-A2.
XX
XX 09-AUG-2001.
XX
XX 30-JAN-2001; 2001WO-US000667.
XX
XX 04-FEB-2000; 2000US-0180312P.
XX
XX 26-MAY-2000; 2000US-0207456P.
XX
XX 30-JUN-2000; 2000US-00608408.
XX
XX 03-AUG-2000; 2000US-00632366.
XX
XX 21-SEP-2000; 2000US-0234687P.
XX
XX 27-SEP-2000; 2000US-0236359P.
XX
XX 04-OCT-2000; 2000GB-00024263.
XX
XX (MOLE-) MOLECULAR DYNAMICS INC.
XX
XX Penn SG, Hanzel DK, Chen W, Rank DR;
XX
XX WPI; 2001-483446/52.
XX
XX Single exon nucleic acid probes for analyzing gene expression in human
XX brains.
XX
XX Example 4; SEQ ID NO 36507; 650bp + Sequence Listing; English.
XX
XX The present invention provides a number of single exon nucleic acid

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PR 27-SEP-2000; 2000US-0236359P.
PR 04-OCT-2000; 2000GB-00024263.
XX
XX (MOLE-) MOLECULAR DYNAMICS INC.
XX
XX Penn SG, Hanzel DK, Chen W, Rank DR;
XX
XX WPI; 2001-488900/53.
XX
XX Human genome-derived single exon nucleic acid probes useful for analyzing
XX gene expression in human bone marrow.
XX
XX Example 4; SEQ ID NO 37526; 658bp + Sequence Listing; English.
XX
XX The present invention provides a number of single exon nucleic acid
XX probes which are derived from genomic sequences expressed in the human
XX bone marrow. They can be used to measure gene expression in bone marrow
XX samples, which may enable the improved diagnosis and treatment of cancers
XX such as lymphoma, leukaemia and myeloma. The present sequence is a
XX protein encoded by one of the probes of the invention
XX
XX Sequence 25 AA;
XX
XX Query Match 100.0%; Score 19; DB 4; Length 25;
XX Best Local Similarity 100.0%; Pred. No. 1e+03;
XX Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1 ACGV 4
XX ||||
XX 16 ACGV 19
XX
XX Db
XX
XX RESULT 89
XX AAM64402
XX ID AAM64402 standard; protein; 25 AA.
XX
XX AAM64402;
XX
XX DT 05-NOV-2001 (first entry)
XX
XX Human brain expressed single exon probe encoded protein SEQ ID NO: 36507.
XX
XX Human brain expressed exon; gene expression analysis; probe; microarray;
XX Alzheimer's disease; multiple sclerosis; schizophrenia; epilepsy; cancer.
XX
XX Homo sapiens.
XX
XX WO200157275-A2.
XX
XX 09-AUG-2001.
XX
XX 30-JAN-2001; 2001WO-US000667.
XX
XX 04-FEB-2000; 2000US-0180312P.
XX
XX 26-MAY-2000; 2000US-0207456P.
XX
XX 30-JUN-2000; 2000US-00608408.
XX
XX 03-AUG-2000; 2000US-00632366.
XX
XX 21-SEP-2000; 2000US-0234687P.
XX
XX 27-SEP-2000; 2000US-0236359P.
XX
XX 04-OCT-2000; 2000GB-00024263.
XX
XX (MOLE-) MOLECULAR DYNAMICS INC.
XX
XX Penn SG, Hanzel DK, Chen W, Rank DR;
XX
XX WPI; 2001-483446/52.
XX
XX Single exon nucleic acid probes for analyzing gene expression in human
XX brains.
XX
XX Example 4; SEQ ID NO 36507; 650bp + Sequence Listing; English.
XX
XX The present invention provides a number of single exon nucleic acid

```

CC probes which are derived from genomic sequences expressed in the human
 CC brain. They can be used to measure gene expression in brain cell samples,
 CC which may enable the diagnosis and improved treatment of nervous system
 CC diseases such as Alzheimer's disease, multiple sclerosis, schizophrenia,
 CC epilepsy and cancers. The present sequence is a protein encoded by one of
 CC the probes of the invention

XX Sequence 25 AA;

SO Query Match 100.0%; Score 19; DB 4; Length 25;
 Best Local Similarity 100.0%; Pred. No. 1e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
 ||||
 Db 16 AOGV 19

RESULT 90

ABG58847 ID ABG58847 standard; peptide; 25 AA.

XX AC ABG58847;

XX DT 25-FEB-2003 (first entry)

XX DE Human liver peptide, SEQ ID No 37495.

XX KW Human; liver; cirrhosis; hyperlipoproteinaemia; hyperlipidaemia;

XX KM hypercholesterolaemia; coronary heart disease.

XX OS Homo sapiens.

XX WO200157273-A2.

XX PD 09-AUG-2001.

XX PF 30-JAN-2001; 2001WO-US000664.

XX PR 04-FEB-2000; 2000US-0180312P.

XX PR 26-MAY-2000; 2000US-0207456P.

XX PR 30-JUN-2000; 2000US-00608408.

XX PR 03-AUG-2000; 2000US-00632366.

XX PR 21-SEP-2000; 2000US-0234687P.

XX PR 27-SEP-2000; 2000US-0236359P.

XX PR 04-OCT-2000; 2000GB-00024263.

XX PA (MOLE-) MOLECULAR DYNAMICS INC.

XX PI Penn SG, Hanzel DK, Chen W, Rank DR;

XX DR WPI; 2001-488898/53.

XX PT Human genome-derived single exon nucleic acid probes useful for analyzing

XX PT gene expression in human adult liver.

XX PS Claim 27; SEQ ID NO 37495; 658bp; English.

XX XX The invention relates to a single exon nucleic acid probe (SENP) (I) for

CC measuring human gene expression in a sample derived from human adult

CC liver, comprising one of 13109 defined nucleotide sequences given in the

CC specification (or complements/ fragments). The probe hybridises at high

CC stringency to a nucleic acid molecule expressed in the human adult liver.

CC (I) may be used for predicting, measuring and displaying gene expression

CC in samples derived from human adult liver. The genes identified may be

SO Sequence 25 AA;

QY Query Match 100.0%; Score 19; DB 4; Length 25;
 Best Local Similarity 100.0%; Pred. No. 1e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
 ||||
 Db 16 AOGV 19

RESULT 91
 ADG26857 ID ADG26857 standard; peptide; 25 AA.

XX AC ADG26857;

XX DT 18-DEC-2003 (first entry)

XX DE B. burgdorferi decorin binding protein A (Dbpa) synthetic peptide p8.

XX KW Decorin binding protein A; Dbpa; immune response; bacterial infection;

XX KM decorin adhesion; colonisation; spirochete; adhesion; collagen fibre;

XX KW decorin; dermatan sulphate proteoglycan; Dbpa; lipoprotein; vaccine;

XX KW delayed type hypersensitivity; DTN; Lyme disease; LD;

XX OS multisystemic disorder; Lyme arthritis; antibacterial.

XX OS Borrelia burgdorferi.

XX PN US6517838-B1.

XX PD 11-FEB-2003.

XX PF 16-JUN-2000; 2000US-00596120.

XX PR 16-JUN-2000; 2000US-00596120.

XX PA (TEXA) UNIV TEXAS A & M SYSTEM.

XX PI Hoegok MA, Brown EL;

XX DR WPI; 2003-634321/60.

XX PT Generating immune response against Borrelia bacteria, for treating Lyme

XX PT disease, by administering decorin binding protein A-derived peptide or a

XX PT combination of decorin binding protein A-derived peptides to mammal.

XX PS Example 1; Fig 1; 33pp; English.

XX XX The invention discloses a method for generating an immune response

CC against Borrelia bacteria infection which involves administering a

CC decorin binding protein A (Dbpa)-derived peptide or a combination of two

CC or more Dbpa-derived peptides, where the peptides span critical binding

CC regions required for Dbpa/decorin adhesion. Colonisation of the

CC spirochetes occurs by adhesion of B. burgdorferi to collagen fibres,

CC particularly to decorin, a dermatan sulphate proteoglycan. Dbpa and B are

CC expressed at the surface of the spirochetes as lipoproteins and act as

CC adhesins, binding to the decorin. Also disclosed are antisera and

CC antibodies generated against the decorin binding proteins, vaccines

CC comprising decorin binding peptides, antisera and antibodies raised

CC against the decorin binding proteins, diagnostic kits comprising the

CC decorin binding peptides, or antibodies or antisera raised against them, pharmaceutical compositions comprising the decorin binding peptides, or

CC antibodies or antisera raised against them, inhibiting decorin binding

CC protein from binding decorin in a blood sample by contacting the blood

CC sample with Dbpa-derived peptide fragment, identifying a candidate

CC substance that alters the binding of Dbpa-derived protein fragment or

CC related peptide to decorin, a modulator of Dbpa-derived protein or

CC peptide fragment binding to decorin, modulating Dbpa-derived protein or

CC peptide fragment binding to decorin, identifying a candidate Dbpa-derived

CC peptide fragment with improved decorin binding and use of decorin-binding

CC peptides, or antibodies or antisera raised against them for the

CC treatment, prevention and diagnosis of Borrelia burgdorferi infections

CC and for coating medical devices or polymeric biomaterials in vitro and in
CC vivo. The peptides are administered by topical, oral, anal, vaginal,
CC intravenous, intraperitoneal, intramuscular, subcutaneous, intranasal or
CC intradermal route. The method is useful (e.g. as a vaccine) for
CC generating an immune response against *Borrelia* bacteria or preventing
CC *Borrelia* infection in a mammal and as a delayed type hypersensitivity
CC (DTH) response inducer. Preferably, the method is useful for treating
CC Lyme disease (LD), which can lead to multisystemic disorders that may
CC affect the joints (Lyme arthritis), skin, heart and central nervous
CC system. The sequence presented is a peptide which was synthesised as part
CC of a series of peptides spanning the full length of the *B. burgdorferi*
CC DbpA protein.
CC
SQ Sequence 25 AA;
Query Match 100.0%; Score 19; DB 7; Length 25;
Best Local Similarity 100.0%; Pred. No. 1e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AGGV 4
Db 10 AGGV 13
RESULT 92
ADN59708 100.0%; Score 19; DB 7; Length 25;
ID ADN59708 standard; peptide; 25 AA.
AC ADN59708;
XX 01-JUL-2004 (first entry)
DT
DE Thrombopoietin mimetic peptide TMP12, seq id 57.
XX
XX Haemostatic; antihaemic; immunosuppressive; platelet;
KW transmembrane signaling; mpl receptor; thrombopoietin mimetic peptide;
KW TMP; c-mpl receptor; platelet precursor; megakaryocyte;
KW thrombocytopenia; aplastic anaemia; autoimmune thrombocytopenia;
KW autoimmune haemolytic anaemia; Hughes' syndrome;
KW lupoid thrombocytopenia.
XX
XX *Homo sapiens*.
OS
XX WO2003031589-A2.
PN 17-APR-2003.
XX
XX 11-OCT-2002; 2002WO-US032552.
PD
XX
XX 11-OCT-2001; 2001US-0328666P.
PR
XX 10-OCT-2002; 2002US-00269806.
PA (AMGE-) AMGEN INC.
XX
XX Min H, Sitney KC, Hartley C;
PI
XX WPI; 2003-403101/38.
DR N-PSDB; ADN59707.
XX
XX Novel thrombopoietin mimetic peptides which bind to mpl receptor, and
PT which stimulate the production of platelets and/or the production of
PT platelet precursors, useful for treating thrombocytopenia.
XX
XX Discloure; SEQ ID NO 57; 126bp; English.
XX
XX The invention relates to a thrombopoietin mimetic peptide (TMP) (I) that
CC binds to the c-mpl (mpl) receptor, and which stimulates the production of
CC platelets and/or the production of platelet precursors, is new. Further
CC disclosed is a composition of matter (II) that binds to an mpl receptor,
CC and a pharmaceutical composition comprising (II) and a carrier. The
CC pharmaceutical composition of the invention is useful for treating
CC thrombocytopenia in an animal, and for increasing megakaryocytes or
CC platelets in a patient. The TMP of the invention is useful for treating

CC conditions involving a megakaryocyte and/or platelet deficiency, e.g.
CC disease conditions involving thrombocytopenia such as aplastic anaemia,
CC autoimmune thrombocytopenia, drug induced immune thrombocytopenia,
CC autoimmune haemolytic anaemia, Hughes' syndrome and lupoid
CC thrombocytopenia. The TMP of the invention is also useful for
CC maintaining the viability or storage life of platelets and/or
CC megakaryocytes and its derived cells. The compounds demonstrate an
CC improved ability to bind to and/or trigger transmembrane signal through,
CC i.e. activating, the mpl receptor the compounds have superior
CC thrombopoietic activity, i.e. the ability to stimulate, in vivo and in
CC vitro, the production of platelets and/or megakaryocytic activity,
CC i.e. the ability to stimulate, in vivo and in vitro, the production of
CC platelet precursors. Further, certain of the compounds also exhibit
CC superior therapeutic properties, such as improved plasma half-life,
CC biological activity and in vivo circulation time. The current sequence
CC represents a TMP fragment.
CC
SQ Sequence 25 AA;
Query Match 100.0%; Score 19; DB 7; Length 25;
Best Local Similarity 100.0%; Pred. No. 1e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AGGV 4
Db 1 AGGV 4
RESULT 93
ABO60121 100.0%; Score 19; DB 7; Length 25;
ID ABO60121 standard; protein; 25 AA.
AC ABO60121;
XX
XX 29-JUL-2004 (first entry)
DT
DE Human genome derived single exon protein #6355.
XX
XX Human gene expression; single exon probe; microarray;
KW alternative splicing event; genomic alteration.
XX
XX *Homo sapiens*.
OS
XX US2003194704-A1.
PN 16-OCT-2003.
XX
XX 03-APR-2002; 2002US-00029386.
PD
XX
XX 03-APR-2002; 2002US-00029386.
PR
XX 03-APR-2002; 2002US-00029386.
PA (PENN/) PENN S G.
XX (RANK/) RANK D R.
PA (HANTZ/) HANTZEL D K.
XX
XX Penn SG, Rank DR, Hanzel DK;
PI
XX WPI; 2004-119264/12.
DR
XX
XX New human genome-derived single exon nucleic acid probes useful for human
PT gene expression analysis, for identifying or characterizing alternative
PT splicing events, for assessing genomic alterations or as tools for
PT surveying tissues.
XX
XX Claim 45; SEQ ID NO 33755; 80bp; English.
PS
XX The invention relates to a nucleic acid probe for measuring human gene
CC expression, comprising any of the 27,400 fully defined nucleotide
CC sequences in the specification, or their complements or fragments, and
CC encoding at least 8 amino acids of any of the 6888 amino acid sequences
CC fully defined in the specification. The probe is a single exon probe that
CC hybridises under high stringency conditions to a nucleic acid molecule
CC expressed in human cells or tissues. Also included are a spatially-

CC addressable set of single exon nucleic acid probes for measuring human
CC gene expression (comprising a plurality of single exon nucleic acid
CC probes cited above, where each of the plurality of probes is separately
CC and addressably isolatable or amplifiable from the plurality), a single
CC exon microarray for measuring human gene expression, a method of
CC measuring human gene expression, a vector comprising the single exon
CC probe cited above, an ORF-encoded peptide comprising at least 8
CC contiguous amino acids of any of the above-mentioned amino acid
CC sequences (optionally with conservative amino acid substitutions), an
CC isolated antibody that binds specifically to a peptide cited above,
CC methods of selling and/or licensing single exon probes or microarrays to
CC a customer desiring to measure gene expression, a method of providing
CC human gene expression data by subscription, and a computer-readable
CC storage medium which contains a database having a plurality of records
CC (each record including data on the expression of a single exon probe
CC cited above. The probe, methods and apparatus are useful in gene
CC expression analysis. The probes may be used as tools for surveying
CC tissues to detect the presence of expressed messages that contain their
CC specific exon, or in constructing genome-derived single exon microarrays.
CC In addition, the probes are used in identifying and characterizing
CC alternative splicing events, in detecting and characterizing gross
CC alterations in the genomic locus that includes their exon, in assessing
CC smaller genomic alterations, in priming the synthesis of nucleic acids,
CC or in expressing the ORF-encoded peptide. The present sequence is a human
CC single exon probe protein of the invention. Note: The sequence data for
CC this patent did not form part of the invention. Note: The sequence data for
CC obtained in electronic format directly from USPTO at
CC seqdata.uspto.gov/sequence.html?DocID=20030194704
CC
XX

Sequence 25 AA;

Query Match 100.0%; Score 19; DB 8; Length 25;
Best Local Similarity 100.0%; Pred. No. 1e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGGV 4
|||
Db 1 AGGV 4

RESULT 94
ADV54693

ID ADV54693 standard; peptide; 25 AA.

XX
AC ADV54693;

XX
DT 10-MAR-2005 (first entry)

XX
DE G protein coupled receptor peptide SEQ ID NO 2190.

XX
KW diagnosis; cancer; obesity; diabetes; asthma; inflammation; depression;
KW food; feedstuff; cosmetics; agriculture; animal breeding; GPCR.

XX
OS Unidentified.

XX
PN WO2004111636-A2.

XX
PD 23-DEC-2004.

XX
PF 17-JUN-2004; 2004WO-EP051158.

XX
PR 17-JUN-2003; 2003BP-00101775.

PR 17-JUN-2003; 2003US-0479061P.

XX
PA (VIBV-) VIB VZW.

XX
PA (UYGE-) UNIV GENT.

XX
PI Kae K, Vandekerckhove J, Krols L;

XX
DR WPI; 2005-057893/06.

XX
PT Identifying a peptide combo which corresponds with a family of proteins,
PT useful for diagnosing a variety of diseases, drug development or in

PT agriculture, comprises generating peptides by applying a digest on the
PT family of protein.

XX
PS Example; SEQ ID NO 2190; 265pp; English.

XX
CC The invention relates to a method of identifying a peptide combo which
CC corresponds with a family of proteins where each of the members of the
CC peptide combo is derived from a unique protein from the family. The
CC peptide combo is useful for quantifying specific known splice variants of
CC one or more particular proteins in a sample, for diagnosing complex
CC genetic diseases such as cancer, obesity, diabetes, asthma and
CC inflammation, neuropsychiatric disorders such as depression, for
CC quantifying one to several hundreds of protein disease markers
CC simultaneously leading to a more accurate diagnostic sub-classification,
CC for determining the extent of protein modification in a particular sample
CC of proteins, for tissue-typing analysis, for prenatal testing to detect
CC the presence of a congenital disease or for quantitating protein levels
CC diagnostic of a chromosomal abnormality, for diagnosing immune diseases
CC or neurological diseases, as biomarkers preclinical drug development,
CC development of improved animal models, biomarkers related with
CC toxicology, clinical drug development, guidance marketed drugs,
CC prognostic or diagnostic disease markers, drug target validation and
CC selection, monitoring protein splicing, drug lead profiling, pathway
CC analysis, answering basic disease biology questions, and in the fields of
CC food and feed, cosmetics, agriculture and animal breeding. The present
CC sequence represents a peptide from a G-protein coupled receptor peptide
CC combo.
XX

Sequence 25 AA;

Query Match 100.0%; Score 19; DB 9; Length 25;
Best Local Similarity 100.0%; Pred. No. 1e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGGV 4
|||
Db 5 AGGV 8

RESULT 95
ADV55689

ID ADV55689 standard; peptide; 25 AA.

XX
AC ADV55689;

XX
DT 10-MAR-2005 (first entry)

XX
DE G protein coupled receptor peptide SEQ ID NO 3188.

XX
KW diagnosis; cancer; obesity; diabetes; asthma; inflammation; depression;
KW food; feedstuff; cosmetics; agriculture; animal breeding; GPCR.

XX
OS Unidentified.

XX
PN WO2004111636-A2.

XX
PD 23-DEC-2004.

XX
PF 17-JUN-2004; 2004WO-EP051158.

XX
PR 17-JUN-2003; 2003BP-00101775.

PR 17-JUN-2003; 2003US-0479061P.

XX
PA (VIBV-) VIB VZW.

XX
PA (UYGE-) UNIV GENT.

XX
PI Kae K, Vandekerckhove J, Krols L;

XX
DR WPI; 2005-057893/06.

XX
PT Identifying a peptide combo which corresponds with a family of proteins,
PT useful for diagnosing a variety of diseases, drug development or in
PT agriculture, comprises generating peptides by applying a digest on the

PT family of protein.
XX
PS Example: SEQ ID NO 3188; 265pp; English.
XX
CC The invention relates to a method of identifying a peptide combo which
CC corresponds with a family of proteins where each of the members of the
CC peptide combo is derived from a unique protein from the family. The
CC peptide combo is useful for quantifying specific known splice variants of
CC one or more particular proteins in a sample, for diagnosing complex
CC genetic diseases such as cancer, obesity, diabetes, asthma and
CC inflammation, neuropsychiatric disorders such as depression, for
CC quantifying one to several hundreds of protein disease markers
CC simultaneously leading to a more accurate diagnostic sub-classification,
CC for determining the extent of protein modification in a particular sample
CC of proteins, for tissue-typing analysis, for prenatal testing to detect
CC the presence of a congenital disease or for quantitating protein levels
CC diagnostic of a chromosomal abnormality, for diagnosing immune diseases
CC or neurological diseases, as biomarkers preclinical drug development,
CC development of improved animal models, biomarkers related with
CC toxicology, clinical drug development, guidance marketed drugs,
CC prognostic or diagnostic disease markers, drug target validation and
CC selection, monitoring protein splicing, drug lead profiling, pathway
CC analysis, answering basic disease biology questions, and in the fields of
CC food and feed, cosmetics, agriculture and animal breeding. The present
CC sequence represents a peptide from a G-protein coupled receptor peptide
CC combo.
XX
SQ Sequence 25 AA;
XX
Query Match 100.0%; Score 19; DB 9; Length 25;
Best Local Similarity 100.0%; Pred. No. 1e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AAGV 4
DB 5 AAGV 8
XX
RESULT 96
AAR30640
ID AAR30640 standard; peptide; 26 AA.
XX
AC AAR30640;
XX
DT 06-MAY-1993 (first entry)
XX
DE Epitope of human CENP-B.
XX
KM Centromere protein; antibodies; polypeptide.
XX
OS Homo sapiens.
XX
PN JP04334398-A.
XX
PD 20-NOV-1992.
XX
PE 08-MAY-1991; 91JP-00102517.
XX
PR 08-MAY-1991; 91JP-00102517.
XX
RA (DAIK) DAIKIN KOGYO KK.
XX
DR WPI; 1993-005542/01.
XX
PT Human centromere antigen polypeptide - for detection of human antibodies
XX and identification of disease.
XX
PS Claim 1; Page 2; 15pp; Japanese.
XX
CC The polypeptide constitutes an epitope of the human centromere protein B
CC (CENP-B) and can be produced by standard recombinant DNA techniques. The
CC polypeptide can be used to detect anti-human centromere antibodies. The
CC type of diseases of a patient having the antibody can be exactly

CC classified using the polypeptide. See also AAR30639-41
XX
SQ Sequence 26 AA;
XX
Query Match 100.0%; Score 19; DB 2; Length 26;
Best Local Similarity 100.0%; Pred. No. 1.1e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AAGV 4
DB 11 AAGV 14
XX
RESULT 97
AAR95624
ID AAR95624 standard; peptide; 27 AA.
XX
AC AAR95624;
XX
DT 18-DEC-1996 (first entry)
XX
DE Tripeptidyl aminopeptidase fragment #3.
XX
KM Tripeptidyl aminopeptidase; tripeptide cleavage; enzyme deactivation;
KM enzyme; increased stability; microbially produced human enzyme; TPAP;
KM aspergillus.
XX
OS Aspergillus niger.
XX
PN WO9614404-A1.
XX
PD 17-MAY-1996.
XX
PE 08-NOV-1995; 95WO-DK000446.
XX
PR 08-NOV-1994; 94DK-00001288.
XX
PR 22-DEC-1994; 94DK-00001470.
XX
PA (NOVO) NOVO-NORDISK AS.
XX
PI Holm KA, Rasmussen G, Halkier T, Lehmbeck J;
XX
DR WPI; 1996-251755/25.
XX
PT New isolated fungal tripeptidyl amino:peptidase enzymes - and related
XX PT DNA, used for cleavage of proteins or for developing prods. which can
XX provide protein prods. with increased stability.
XX
PS Claim 2; Page 43; 58pp; English.
XX
CC AAR95622-R95627 represent partial sequences of the Aspergillus niger
CC tripeptidyl aminopeptidase (TPAP). TPAP is capable of non-specifically
CC cleaving tripeptides from the unsubstituted N-terminus of proteins
CC products. The enzyme can also be used for the cleavage of proteins, such
CC as for the deactivation of enzymes after they have exerted a desired
CC effect. By altering this sequence a host cell with reduced (or
CC eliminated) TPAP production can be produced. This alteration comprises
CC random (or site-directed) mutagenesis of part of the essential DNA
CC sequence (such as the promoter sequence) encoding TPAP (see AAR7801-
CC T27803 for partial sequences). Alternatively inhibition may occur through
CC hybridisation of a complementary sequence to reduce (or eliminate)
CC translation of the protein. Products free from TPAP can be produced by
CC fermentation of a TPAP-producing cell to a combined pH and temperature
CC treatment to reduce the TPAP activity. The product of interest can then
CC be isolated from the broth. This method can therefore be used to produce
CC products with reduced TPAP activity, such as enzyme preparations with
CC increased stability. This is particularly useful in the stability of
CC microbially produced products, such as human enzymes
XX
SQ Sequence 27 AA;
XX
Query Match 100.0%; Score 19; DB 2; Length 27;
Best Local Similarity 100.0%; Pred. No. 1.1e+03;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AQGV 4
| | | |
Db 17 AQGV 20

RESULT 98
AAM97423
ID AAM97423 standard; peptide; 27 AA.
XX
AC AAM97423;
XX
DT 20-MAY-1999 (first entry)
XX
DE Peptide of the specification.
XX
KM Epitope; fibrinogen; fibrinopeptide B; monospecific antibody;
KM thrombotic status; thrombogenesis; atherogenesis.
XX
OS Unidentified.
XX
PN WO905176-A1.
PD 04-FEB-1999.
XX
PF 22-JUL-1998; 98WO-US015059.
XX
PR 25-JUL-1997; 97US-00900660.
XX
PA (NYBL-) NEW YORK BLOOD CENT INC.
XX
PI Kudryk BJ, Redman CM, Zhang J;
XX
DR WPI; 1999-142856/12.
XX
PT New fibrinogen-specific antibodies - can bind fibrinopeptide B, used for
PT detection, purification and diagnosing thrombogenesis or atherogenesis.
XX
XX Disclosure; Page 60; 64pp; English.
XX
PS The specification describes an epitope derived from fibrinogen or a
CC fibrinopeptide, and a monospecific antibody that binds specifically with
CC that epitope. The antibodies can be used for detecting and measuring
CC enzyme-mediated digestion of fibrinogen. They can be used for the precise
CC and accurate detection of fibrinopeptide B and des-Arg FPB resulting in
CC an objective measure of the thrombotic status of the patient. They can be
CC used for diagnosing the presence or probability of thrombogenesis or
CC atherogenesis in a subject. They can also be used for purifying
CC fibrinogen or fibrinopeptide. The present sequence appears in the
CC specification
XX
SQ Sequence 27 AA;
Query Match 100.0%; Score 19; DB 2; Length 27;
Best Local Similarity 100.0%; Pred. No. 1.1e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AQGV 4
| | | |
Db 21 AQGV 24

RESULT 99
ADX56530
ID ADX56530 standard; peptide; 27 AA.
XX
AC ADX56530;
XX
DT 05-MAY-2005 (first entry)
XX
DE Cardiovascular disorder plasma protein cryptic fragment SEQ ID NO 347.
XX

KM coronary artery disease; primary biliary cirrhosis; gallstones;
KM celiac disease; irritable bowel syndrome; diabetes; scleroderma; nausea;
KM emesis; constipation; diarrhea; cardiovascular disease; immune disorder;
KM endocrine disease; gastrointestinal disease; metabolic disorder;
KM dermatological disease; musculoskeletal disease; Cardiant; Vasotropic;
KM Hepatotropic; litholytic; immunosuppressive; Gastrointestinal-gen.;
KM Antiinflammatory; Antidiabetic; Dermatological; Antileptic; Laxative;
KM Antidiarrhetic; diagnosis.
XX
XX Homo sapiens.
OS
XX WO2005015206-A2.
XX
XX 17-FEB-2005.
XX
PD 06-AUG-2004; 2004WO-EP008860.
XX
PF 08-AUG-2003; 2003US-0493599P.
XX
PR 08-AUG-2003; 2003US-0493836P.
XX
PR 08-AUG-2003; 2003US-0493867P.
XX
PR 08-AUG-2003; 2003US-0493985P.
XX
XX (XENO-) XENOVA LTD.
PA (NOVS) NOVARTIS AG.
XX (NOVS) NOVARTIS PHARMA GMBH.
XX
PI Argoud-Puy G, Bederr N, Bougueleret L, Cusin I, Mahe E;
PI Niknejad A, Reftas S, Rose K, Saudrats C, Scherer A, Papoian R;
XX
XX WPI; 2005-195824/20.
XX
XX Screening and/or diagnosing cardiovascular disorder in subject involves
PT detecting and/or quantifying level of polypeptide in biological sample
PT from subject and comparing with control sample.
XX
XX Claim 1; SEQ ID NO 347; 349pp; English.
XX
PS The invention relates to a method of screening and/or diagnosing a
CC cardiovascular disorder (CD) in a subject which comprises detecting a
CC and/or quantifying the level of a polypeptide in a biological sample from
CC the subject and comparing the level to that of control sample. The method
CC is useful for screening, diagnosing and treating coronary artery disease,
CC biliary cirrhosis, gallstones, celiac disease, irritable bowel syndrome,
CC diabetes, scleroderma, nausea, vomiting, constipation and diarrhea. The
CC method is rapid and efficient. The present sequence represents a
CC cardiovascular disorder plasma protein cryptic fragment.
XX
SQ Sequence 27 AA;
Query Match 100.0%; Score 19; DB 9; Length 27;
Best Local Similarity 100.0%; Pred. No. 1.1e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AQGV 4
| | | |
Db 11 AQGV 14

RESULT 100
AAR36413
ID AAR36413 standard; peptide; 29 AA.
XX
AC AAR36413;
XX
DT 25-MAR-2003 (revised)
XX
DT 12-AUG-1993 (first entry)
XX
DE DPI-28.1(173-201) a Dermacophagoides protein allergen.
XX
XX T cell epitope; house dust mite; allergy; soluble; Der PI.
XX
XX Synthetic.
XX

PN WO9308279-A1.
 XX
 PD 29-APR-1993.
 XX
 PF 15-OCT-1992; 92WO-US008637.
 XX
 PR 16-OCT-1991; 91US-0077859.
 PR 08-MAY-1992; 92US-00881396.
 XX
 PA (IMMU-) IMMUNOLOGIC PHARM CORP.
 XX
 PI Garman RD, Greenstein JL, Kuo MC, Rogers BL;
 XX
 DR WPI; 1993-152472/18.
 XX
 PT Isolated peptide(s) of dermatophagoides protein allergens - for diagnosis
 PT and treatment of sensitivity to house dust mite.
 XX
 PS Claim 10; Fig 3; 176pp; English.
 XX
 CC The peptide is one of a series of overlapping peptides synthesised by
 CC standard techniques to cover the whole Dermatophagoides pteronyssinus Der
 CC PI sequence. The T cell epitopes of the protein were mapped by detection
 CC of the peptide's ability to stimulate T cell activity. The peptides may
 CC be used for diagnosis and treatment of sensitivity to house dust mite
 CC allergens. When administered to house dust mite sensitive individuals,
 CC the peptides are capable of modifying the allergic response to the
 CC allergens. The peptides may be modified for e.g. increasing solubility,
 CC enhancing therapeutic or preventive efficacy or stability. See also
 CC AAR4666-700 and AAR36398-490. (Updated on 25-MAR-2003 to correct PN
 CC field.)
 CC
 SQ Sequence 29 AA;
 XX
 Query Match 100.0%; Score 19; DB 2; Length 29;
 Best Local Similarity 100.0%; Pred. No. 1.2e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 AOGV 4
 ||||
 Db 8 AOGV 11
 XX
 RESULT 101
 AAR51761
 ID AAR51761 standard; protein; 29 AA.
 XX
 AC AAR51761;
 XX
 DT 01-FEB-1995 (first entry)
 XX
 DE Der p I derived peptide, DP I-28.1(173-201).
 XX
 KW Group I; protein allergen; house dust mite; D. pteronyssinus; Der p I;
 KW homology; D. farinae; Der f I; group II; Der p II; Der f II; T-cell;
 KW epitopes; fusion peptides; antigenic fragments; substitution; deletion;
 KW addition; chemical synthesis; chemical cleavage; recombinant techniques;
 KW allergic response; immunoglobulin E; IgE; immunotherapy; anaphylaxis;
 KW IgE-mediated responses; anergise; lymphokine secretion profile; modify;
 KW T cell subpopulations; unresponsive; immune response; tolerance.
 XX
 OS Dermatophagoides pteronyssinus.
 XX
 PN ZA9302677-A.
 XX
 PD 26-JAN-1994.
 XX
 PF 16-APR-1993; 93ZA-00002677.
 XX
 PR 16-APR-1993; 93ZA-00002677.
 XX
 PR 16-APR-1993; 93ZA-00002677.
 XX
 PA (IMMU-) IMMUNOLOGIC PHARM CORP.
 XX

PI Garman RD, Greenstein JL, Kuo M, Rogers BL;
 XX
 DR WPI; 1994-126807/15.
 XX
 PT Isolated and/or modified peptides comprising T-cell epitopes - of major
 PT protein allergens of genus Dermatophagoides, used to treat or diagnose
 PT sensitivity to house dust mites.
 XX
 PS Claim 10; Page 66; 154pp; English.
 XX
 CC The sequences given in AAR51731-841 represent T-cell epitopes derived
 CC from the group I and II protein allergens from the house dust mite D.
 CC farinae and D. pteronyssinus, Der f I, Der f II, Der p I and Der p II
 CC respectively. The Der f II proteinCC shows high homology having an
 CC identity of 88%, with an identity of 81% between the two group I proteins
 CC (see also AAR51727-30). Fusion peptides may be produced which comprise at
 CC least two or these antigenic fragments. Each region of these fusion
 CC peptides may be derived from the same, or different, mite allergens. The
 CC antigenic fragments may be altered by substitution, deletion or addition
 CC to enhance their antigenicity. These peptides may be produced by chemical
 CC synthesis, chemical cleavage of the protein allergen or by recombinant
 CC techniques. These peptides, or the fusion peptides, when administered to
 CC a house dust mite sensitive individual, are capable of modifying the
 CC allergic response of the individual to the allergen. The peptides do not
 CC bind to immunoglobulin E (IgE), or bind IgE to a lesser extent than the
 CC full length protein allergen. This reduces the major complications of
 CC standard immunotherapy, which are IgE-mediated responses such as
 CC anaphylaxis. Exposure of mite allergic patients to these peptides may
 CC become unresponsive to mite allergens and do not participate in mounting
 CC an immune response upon exposure. Administration of the peptides may also
 CC modify the lymphokine secretion profile as compared with exposure to the
 CC naturally occurring mite protein allergen
 CC
 SQ Sequence 29 AA;
 XX
 Query Match 100.0%; Score 19; DB 2; Length 29;
 Best Local Similarity 100.0%; Pred. No. 1.2e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 AOGV 4
 ||||
 Db 8 AOGV 11
 XX
 RESULT 102
 AAW71936
 ID AAW71936 standard; peptide; 29 AA.
 XX
 AC AAW71936;
 XX
 DT 27-AUG-2003 (revised)
 DT 25-MAR-2003 (revised)
 DT 16-DEC-1998 (first entry)
 XX
 DE Dermatophagoides Der p I protein peptide DPI-28.1.
 XX
 KW genus Dermatophagoides; major protein allergen; T cell epitope; Der p I;
 KW Der p II; Der f I; Der f II; house dust mite allergy.
 XX
 OS Dermatophagoides.
 XX
 PN US5820862-A.
 XX
 PD 13-OCT-1998.
 XX
 PF 07-JUN-1995; 95US-00482142.
 XX
 PR 14-APR-1993; 93WO-US003471.
 PR 14-APR-1994; 94US-00227772.
 PR 19-MAY-1995; 95US-00445307.
 XX
 PA (IMMU-) IMMUNOLOGIC PHARM CORP.
 XX

XX Franzen HM, Kuo M, Evans S, Garman RD, Greenstein JL, Chen X;
PI Shaked Z, Rogers BL;
XX WPI; 1998-567590/48.
XX Dermatophagoides allergen peptides - useful for treating house dust mite
PT allergy.
XX Disclasure; Col 97-98; 155pp; English.
XX The present invention describes peptides for treating sensitivity to
CC house dust mite allergens from the genus Dermatophagoides. Peptides
CC within the scope of the invention comprise at least one T cell epitope,
CC or preferably at least two T cell epitopes of a protein allergen selected
CC from the allergens Der p I, Der p II, Der f I, or Der f II. The invention
CC also describes modified peptides having similar or enhanced therapeutic
CC properties as the corresponding, naturally occurring allergen, but having
CC reduced side effects. AAW71912 to AAW72000, and AAW72257 to AAW72330
CC represent peptides from the present invention. (Updated on 25-MAR-2003 to
CC correct PR field.) (Updated on 27-AUG-2003 to correct OS field.)
XX
XX Sequence 29 AA;
SQ
Query Match 100.0%; Score 19; DB 2; Length 29;
Best Local Similarity 100.0%; Pred. NO. 1.2e+03; Indels 0; Gaps 0;
Matches 4; Conservative 0; Mismatches 0;
QY 1 AGGV 4
Db 8 AGGV 11
RESULT 103
AAV50390
ID AAV50390 standard; peptide; 29 AA.
XX
AC AAV50390;
XX
DT 25-JAN-2000 (first entry)
XX
DE Dermatophagoides sp major protein allergen DP I-28.1.
XX
KW Allergen; house dust mite; detection; sensitivity; T cell epitope;
KW screening; allergic disorder; asthma; rhinitis; eczopic dermatitis;
KW Der f I; Der p I; Der p II; Der f II.
XX
OS Dermatophagoides sp.
XX
PN US5968526-A.
XX
PD 19-OCT-1999.
XX
PE 07-JUN-1995; 95US-00478572.
XX
PR 14-APR-1994; 94US-00227772.
PR 12-APR-1995; 95WO-US004481.
PR 19-MAY-1995; 95US-00445307.
XX
PA (IMMU-) IMMUNOLOGIC PHARM CORP.
XX
PI Garman RD, Greenstein JL, Rogers BL, Franzen HM, Shaked Z;
PI Chen X, Evans S, Kuo M;
XX
DR WPI; 1999-590385/50.
XX
PT Screening individuals for allergic reactions to T cell epitopes of major
PT allergens from house dust mites.
XX
PS Claim id', Column 99-100; 158pp; English.
XX
CC This invention describes a novel method (I) for detecting whether an
CC individual is sensitive to Dermatophagoides (house dust mites). The

CC method involves detecting sensitivity to house dust mites in patients,
CC comprising combining a blood sample from the individual with 1 or more
CC isolated T cell epitopes of the protein allergens I and II (DP I) and
CC (DP II) from Dermatophagoides (house dust mites). 32 T cell epitopes
CC with varying, defined amino acid sequences (given in the specification)
CC may be used in (I). The sample and allergens are combined under
CC conditions appropriate for the binding of blood components with the
CC polypeptides. The extent of binding is then indicative of the sensitivity
CC of the patient to house dust mites. (I) may be used to screen individuals
CC for sensitivity to Dermatophagoides (house dust mites). The house dust
CC mite is a major cause of a variety of allergic disorders such as asthma,
CC rhinitis and eczopic dermatitis. AAV50360-Y50542 and AAV50546-Y50555
CC represent house dust mite allergen peptide fragments derived from Der p
CC I, Der f II, Der f I and Der f II
XX
XX Sequence 29 AA;
SQ
Query Match 100.0%; Score 19; DB 2; Length 29;
Best Local Similarity 100.0%; Pred. NO. 1.2e+03; Indels 0; Gaps 0;
Matches 4; Conservative 0; Mismatches 0;
QY 1 AGGV 4
Db 8 AGGV 11
RESULT 104
AAU18993
ID AAU18993 standard; peptide; 29 AA.
XX
AC AAU18993;
XX
DT 04-DEC-2001 (first entry)
XX
DE T-cell epitope containing peptide DPI-28.1.
XX
KW House dust mite; allergenic peptide; Der p I; Der p II; Der f I;
KW Der f II; anti-allergenic; immunostimulant; house dust mite allergy;
KW T-cell epitope.
XX
OS Dermatophagoides pteronyssinus.
XX
PN US6268491-B1.
XX
PD 31-JUL-2001.
XX
PE 07-JUN-1995; 95US-00484296.
XX
PR 16-OCT-1991; 91US-00777859.
PR 08-MAY-1992; 92US-00881396.
PR 14-APR-1993; 93WO-US003471.
PR 14-APR-1994; 94US-00227772.
PR 19-MAY-1995; 95US-00445307.
XX
PA (IMMU-) IMMUNOLOGIC PHARM CORP.
XX
PI Garman RD, Greenstein JL, Kuo M, Rogers BL, Franzen HM, Chen X;
PI Evans S, Shaked Z;
XX
DR WPI; 2001-549074/61.
XX
PT Peptides comprising T cell groups of the major allergens from
PT Dermatophagoides (house dust mites), useful for treating house dust mite
PT allergy in humans, and for diagnosing sensitivity to house dust mite
PT protein allergens.
XX
PS Claim 2; Fig 3; 158pp; English.
XX
CC The invention relates to an isolated peptide of the major protein
CC allergens of the genus Dermatophagoides, which comprises at least one T
CC cell group of a protein allergen from Der p (DP) I, DP II, Der f (DF) I
CC or DF II. The isolated peptide comprises at least two regions, each
CC region comprising at least one T cell group of a protein allergen of the

XX ADF45511;
XX 26-FEB-2004 (first entry)
XX Human NUDE1 exon 9b related amino acid sequence.
XX DISC1 partner; DISC1; ATP4; KIAA1167; KIAA0380; AKAP450; NUDE1;
XX neuroleptic; gene therapy; schizophrenia; psychotic disorder;
XX mood disorder; human.
XX Homo sapiens.
XX W02003102587-A1.
XX 11-DEC-2003.
XX 02-JUN-2003; 2003WO-GB002396.
XX 01-JUN-2002; 2002GB-00012856.
XX (UYED-) UNIV EDINBURGH.
XX Millar K, Porteous DJ, Muir WJ, Blackwood D;
XX WPI; 2004-053510/05.
XX Screening for a candidate agent, useful in treating, ameliorating or
XX preventing schizophrenia, psychotic or mood disorder, comprises forming a
XX mixture comprising the candidate agent, a DISC1 partner polypeptide and
XX DISC1 polypeptide.
XX Disclosure; Page 6; 88pp; English.
XX The present invention describes a method of screening for a candidate
XX agent (I) which modulates an interaction between a DISC1 partner
XX polypeptide and DISC1 polypeptide, which comprises forming a mixture
XX comprising the candidate agent, a DISC1 partner polypeptide selected from
XX ATR4, KIAA1167, KIAA0380, AKAP450 or NUDE1 or their splice variants,
XX mutant, fragments or orthologues and DISC1 polypeptide. (I) has
XX neuroleptic activity, and can be used in gene therapy. The method is
XX useful for screening a candidate agent, which modulates an interaction
XX between a DISC1 partner polypeptide and DISC1 polypeptide. Mutant forms
XX of ATR4, KIAA1167, KIAA0380, AKAP450 or NUDE1 are useful for identify
XX agents which substantially restore a wild-type functional activity of a
XX native or mutated DISC1 polypeptide or a mutated form of ATR4, KIAA1167,
XX KIAA0380, AKAP450 or NUDE1. A polynucleotide sequence encoding ATP4,
XX KIAA1167, KIAA0380, AKAP450 or NUDE1 or its fragment, derivative, mutant
XX or orthologue or sequences complementary to the polynucleotide sequences
XX is useful in determining a loss of expression of any one of the DISC1
XX partner. The polynucleotide and polypeptides are useful in the
XX manufacture of a medicament for the treatment of schizophrenia, other
XX psychotic disorders and mood disorders. The present sequence is used in
XX the exemplification of the present invention.
XX Sequence 30 AA;
SQ
Query Match 100.0%; Score 19; DB 8; Length 30;
Best Local Similarity 100.0%; Pred. No. 1.2e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX Human DEC-205 C-terminal sequence, SEQ ID 1.
XX Cytostatic; Virucide; Antibacterial; Antiparasitic; Vaccine;
XX endocytic receptor; dendritic cell; infection; cancer; DEC-205.
XX Homo sapiens.
XX US2004258688-A1.
XX 23-DEC-2004.
XX 12-MAR-2004; 2004US-00800023.
XX 31-JAN-1995; 95US-00381528.
XX 31-JAN-1996; 96WO-US001383.
XX 05-JUN-2000; 2000US-00586704.
XX 09-AUG-2001; 2001US-00925284.
XX (HAWIGER D.
XX (NUSSENZWEIG M.
XX (STEINMAN R M.
XX (BONIFAZ L.
XX Bonifaz L;
XX Nussenzweig M, Steinman RM, Bonifaz L;
XX WPI; 2005-078933/09.
XX Promoting antigen presentation comprises targeting antigen to dendritic
XX cells using an anti-DEC-205 antibody.
XX Disclosure; SEQ ID NO 1; 116pp; English.
XX The present invention relates to a method (M1) for promoting highly
XX efficient antigen presentation in a mammal, by targeting a preselected
XX antigen to an endocytic receptor on an antigen-presenting cell, e.g. a
XX dendritic cell. An example of a dendritic cell is the cell endocytic
XX receptor DEC-205. The method comprises exposing dendritic cells from the
XX mammal to either: a conjugate comprising a preselected antigen covalently
XX bound to an antibody to DEC-205; or a recombinant anti-DEC-205 antibody
XX genetically engineered to contain at least one preselected antigen on at
XX least one preselected site on the antibody molecule; and promoting
XX maturation of the dendritic cells. The sequence encoding an anti-DEC-205
XX antibody (fragment) is preferably selected from ADV85632 and ADV85633,
XX which encode the heavy or light chain variable region of an anti-DEC-205
XX antibody. The antigen is targeted to antigen presenting cells through the
XX inclusion of the anti-DEC-205 antibody, making antigen presentation
XX highly efficient. The immunity induced is robust and long lasting, even
XX from a single dose at low concentration. The method of the invention is
XX useful for immunizing a mammal to prevent or treat a disease such as a
XX viral, bacterial or other infection or cancer. The immunization
XX preferably results in induction of long term T cell, B cell or mucosal
XX immunity. The present sequence is a C-terminal fragment of the human DEC-
XX 205 protein, corresponding to residues 1714-1743 of the sequence given in
XX ADV85625.
XX Sequence 30 AA;
SQ
Query Match 100.0%; Score 19; DB 9; Length 30;
Best Local Similarity 100.0%; Pred. No. 1.2e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 108
ADV85620
ID ADV85620 standard; peptide; 30 AA.
XX
XX ADV85620;
XX
XX 10-MAR-2005 (first entry)
DT

RESULT 109
AAB27936
ID AAB27936 standard; peptide; 33 AA.
XX
XX AAB27936;
XX

DT 02-FEB-2001 (first entry)
 XX Human secreted protein SEQ ID NO: 90.
 DE
 XX Cytostatic; immunosuppressive; nocotropic; neuroprotective; antiviral;
 XX antiallergic; hepatotropic; antidiabetic; antiinflammatory; anticancer;
 XX vulnerability; anticonvulsant; antibacterial; antifungal; antiparasitic;
 XX cardiac; gene therapy; cancer; immune disorder; cardiovascular disorder;
 XX neurological disease; infection; human; secreted protein.
 XX Homo sapiens.
 OS
 XX WO200055171-A1.
 PN
 XX 21-SEP-2000.
 PD
 XX 09-MAR-2000; 2000WO-US006043.
 PP
 XX 12-MAR-1999; 98US-0124146P.
 PR 23-NOV-1999; 99US-0167061P.
 XX (HUMA-) HUMAN GENOME SCI INC.
 XX
 XX Rosen CA, Ruben SM, Komateoulis G;
 PI WPI; 2000-638174/61.
 DR N-PSDB; AAC59078.
 XX
 XX Isolated nucleic acid molecule encoding a human secreted protein is used
 PT in preventing, treating or ameliorating a medical condition.
 XX
 XX Claim 11; Page 376; 438pp; English.
 PS
 XX Sequences AAB27907-B27956 represent the amino acid sequences of 50 human
 CC secreted proteins encoded by the genes AAC59049-C59098. The genes and
 CC proteins are useful for preventing, ameliorating or treating medical
 CC conditions, e.g. by protein or gene therapy. The genes are isolated from
 CC a range of human tissues disclosed in the specification. The nucleic
 CC acids, proteins, antibodies and (ant)agonists are useful in the
 CC diagnosis, treatment and prevention of: (a) cancer, e.g. breast and
 CC ovarian cancer, and other cancers of the adrenal gland, bone, bone
 CC marrow, breast, gastrointestinal tract, liver, lung, or urogenital; (b)
 CC immune disorders e.g. Addison's disease, allergies, autoimmune haemolytic
 CC anemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease,
 CC multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c)
 CC cardiovascular disorders such as myocardial ischaemia; (d) wound healing
 CC ; (e) neurological diseases e.g. cerebral anoxia and epilepsy; and (f)
 CC infectious diseases such as viral, bacterial, fungal and parasitic
 CC infections
 CC
 XX Sequence 33 AA;
 SQ
 Query Match 100.0%; Score 19; DB 3; Length 33;
 Best Local Similarity 100.0%; Pred. No. 1.4e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 AQGV 4
 ||||
 Db 25 AQGV 28
 RESULT 110
 ADY97195
 ID ADY97195 standard; peptide; 35 AA.
 XX
 XX ADY97195;
 AC
 XX 16-JUN-2005 (first entry)
 DT
 XX Herpes simplex virus type 2 (HSV-2) HLA-binding epitope peptide RSI-3.
 DE
 XX antigen; anti-HSV; virucide; HSV-1 infection; HSV-2 infection;
 KM immunotherapy; vaccine.

XX
 OS Human herpesvirus 2.
 XX
 XX WO2005028496-A2.
 PN
 XX 31-MAR-2005.
 PD
 XX 13-SEP-2004; 2004WO-US029908.
 PP
 XX 12-SEP-2003; 2003US-0503148P.
 PR
 XX (ANTI-) ANTIGENICS INC.
 PA
 XX Truneh A, Levey DL, Mo X, Leclair KP, Kashi RS, Liu C;
 PI WPI; 2005-262770/27.
 DR
 XX
 XX New composition comprising different antigenic peptides, each comprising
 PT one or more HLA-binding epitopes of a different herpesvirus peptide,
 PT useful for treating or preventing infection, e.g. herpes simplex virus 1
 PT or 2 infection.
 XX
 XX Disclosure; SEQ ID NO 53; 114pp; English.
 PS
 XX The invention relates to a novel composition comprising different
 CC antigenic peptides, whereby each peptide comprises one or more HLA-
 CC binding epitopes of a different herpesvirus peptide selected from among
 CC herpesvirus peptides differing in amino acid sequence, the amino acid
 CC sequence of each herpesvirus peptide selected from SEQ ID Nos. 1-49,
 CC given in the specification. The herpesviruses include the Herpes simplex
 CC viruses which, in turn, include two closely-related variants designated
 CC types 1 (HSV-1) and 2 (HSV-2). HSV-1 and HSV-2 are associated in some
 CC individuals with frequent and/or painful recurrences that manifest
 CC themselves as cold sores and genital herpes, respectively. Although
 CC continuous administration of antiviral drugs, such as acyclovir,
 CC ameliorates the severity of HSV infection and reduces the frequency and
 CC duration of associated episodes, such treatment does not tackle the
 CC establishment of latency or indeed the state of the latent virus. There
 CC currently exists no effective vaccine for the prevention or treatment of
 CC HSV-1 or HSV-2. The composition of the invention demonstrates anti-HSV
 CC and virucide activities and may be useful for treating or preventing
 CC infection, preferably a recurrent infection by HSV-1 or HSV-2, possibly
 CC via immunotherapy. The current sequence is that of a HSV-2 HLA-binding
 CC epitope peptide of the invention.
 CC
 XX Sequence 35 AA;
 SQ
 Query Match 100.0%; Score 19; DB 9; Length 35;
 Best Local Similarity 100.0%; Pred. No. 1.4e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 AQGV 4
 ||||
 Db 10 AQGV 13
 RESULT 111
 ADX56537
 ID ADX56537 standard; peptide; 36 AA.
 XX
 XX ADX56537;
 AC
 XX 05-MAY-2005 (first entry)
 DT
 XX Cardiovascular disorder plasma protein tryptic fragment SEQ ID NO 354.
 DE
 XX coronary artery disease; primary biliary cirrhosis; gallstones;
 XX celiac disease; irritable bowel syndrome; diabetes; scleroderma; nausea;
 XX emesis; constipation; diarrhea; cardiovascular disease; immune disorder;
 XX endocrine disease; gastrointestinal disease; metabolic disorder;
 XX dermatological disease; musculoskeletal disease; Cardiant; Vasotropic;
 KM Hepatotropic; Litholytic; Immunosuppressive; Gastrointestinal-Gen.;
 KM Antiinflammatory; Antidiabetic; Dermatological; Antileptic; Laxative;

KM Antidiarrhetic; diagnosis.
 XX Homo sapiens.
 OS
 XX WO2005015206-A2.
 PN
 XX 17-FEB-2005.
 PD
 XX
 PF 06-AUG-2004; 2004WO-EP008660.
 XX
 XX 08-AUG-2003; 2003US-0493599P.
 PR 08-AUG-2003; 2003US-0493836P.
 PR 08-AUG-2003; 2003US-0493867P.
 PR 08-AUG-2003; 2003US-0493965P.
 XX
 PA (XENO-) XENOVA LTD.
 PA (NOVS) NOVARTIS AG.
 PA (NOVS) NOVARTIS PHARMA GMBH.
 XX
 PI Argoud-Puy G, Béderr N, Bougueleret L, Cusin I, Mahe E;
 PI Miknejad A, Reffaas S, Rose K, Saudrais C, Scherer A, Papoian R;
 XX WPI; 2005-195824/20.
 DR
 XX Screening and/or diagnosing cardiovascular disorder in subject involves
 PT detecting and/or quantifying level of polypeptide in biological sample
 PT from subject and comparing with control sample.
 PS
 PS Claim 1; SEQ ID NO 354; 349pp; English.
 XX
 CC The invention relates to a method of screening and/or diagnosing a
 CC cardiovascular disorder (CD) in a subject which comprises detecting
 CC and/or quantifying the level of a polypeptide in a biological sample from
 CC the subject and comparing the level to that of control sample. The method
 CC is useful for screening, diagnosing and treating coronary artery disease,
 CC biliary cirrhosis, gallstones, celiac disease, irritable bowel syndrome,
 CC diabetes, scleroderma, nausea, vomiting, constipation and diarrhea. The
 CC method is rapid and efficient. The present sequence represents a
 CC cardiovascular disorder plasma protein tryptic fragment.
 CC
 SQ Sequence 36 AA;
 XX
 QY Query Match 100.0%; Score 19; DB 9; Length 36;
 Best Local Similarity 100.0%; Pred. No. 1.5e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 1 ACGV 4
 ||||
 3 ACGV 6
 Db

RESULT 112
 AAR25974
 ID AAR25974 standard; protein; 37 AA.
 XX
 AC AAR25974;
 XX
 DT 25-MAR-2003 (revised)
 DT 21-JAN-1993 (first entry)
 XX
 XX Peptide monomer 12.
 DE
 XX Reverse peptide; microbial pathogen; phytotoxicity; head-to-tail;
 KW proteolytic degradation; dimer; peptide bond; bridging group; omega loop.
 OS Synthetic.
 XX
 PN EP497366-A2.
 XX
 PD 05-AUG-1992.
 XX
 PF 31-JAN-1992; 92BP-00101616.
 XX

PR 01-FEB-1991; 91US-00649784.
 XX
 XX (DONG) IST DONEGANI SPA GUIDO.
 PA (ENIE) ENICHEM SPA.
 XX
 XX Mapelli C, Dugas De Robertis C, Stahl GF, Bascomb NF;
 PI Swerdloff MD, Williams JJ, Everett NP;
 XX WPI; 1992-260816/32.
 DR
 XX Reverse antimicrobial peptide(s) and oligopeptide(s) - useful for
 PT protecting plants from pathogens and for determining phytotoxicity.
 PT
 PS Disclosure; Fig 1; 79pp; English.
 XX
 CC The sequences given in AAR25963-83 are a collection of natural and
 CC reverse peptides which are active against at least one microbial pathogen
 CC and, preferably, at least one plant pathogen. It has been found that
 CC acceptable activity and acceptable levels of protection against at least
 CC one microbial pathogen and at least one microbial plant pathogen may be
 CC obtained by reversing the sequence of amino acids contained within
 CC naturally occurring antimicrobial peptides while maintaining the
 CC directionality of the peptide bonds. These peptides possess relatively
 CC low phytotoxicity and/or low susceptibility to proteolytic degradation.
 CC The oligopeptides may be used as dimers composed of two peptide units
 CC with or without an intervening bridge. The simplest structure taken by
 CC these dimers is the "head-to-tail" configuration. This comprises at least
 CC one first peptide monomer and at least one second peptide monomer. Each
 CC peptide monomer has an N- and C-terminus, both of which are capable of
 CC forming peptide bonds. In the head-to-tail configuration the C-terminal
 CC amino acid of the first monomer peptide is directly bound to the N-
 CC terminus of the second monomer peptide, by a peptide bond, without an
 CC intervening bridging group. In other peptide dimers bridging groups may
 CC be used and may be as few as one amino acid but may be as large as 100
 CC amino acids in length and form omega loops or other secondary structures.
 CC (Updated on 25-MAR-2003 to correct PN field.) (Updated on 25-MAR-2003 to
 CC correct PA field.)
 CC
 SQ Sequence 37 AA;
 XX
 QY Query Match 100.0%; Score 19; DB 2; Length 37;
 Best Local Similarity 100.0%; Pred. No. 1.5e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 1 ACGV 4
 ||||
 6 ACGV 9
 Db

RESULT 113
 AAY21614
 ID AAY21614 standard; peptide; 37 AA.
 XX
 AC AAY21614;
 XX
 DT 20-MAR-2003 (revised)
 DT 11-AUG-1999 (first entry)
 XX
 XX Antimicrobial oligopeptide.
 DE
 XX Antimicrobial; oligopeptide; cecropin PL; microbial pathogen; magainin;
 KW plant pathogen; food additive; preservative; cosmetic; pharmaceutical.
 OS Synthetic.
 XX
 PN EP919566-A2.
 XX
 PD 02-JUN-1999.
 XX
 PF 31-JAN-1992; 98BP-00121780.
 XX
 PR 01-FEB-1991; 91US-00649784.
 PR 31-JAN-1992; 92BP-00101616.
 XX

XX PA (ENITE) ENICHEM SPA.
XX
XX Pi Mapelli C, Dugas De Robertis C, Stahl GF, Baecomb NF;
XX Pi Swerdloff MD, Williams JI, Everett NP;
XX DR WPI, 1999-304793/26.

XX
XX PT New oligopeptides containing at least two antimicrobial peptides, useful
XX PT for protecting plants against microbial pathogens.

XX PS Claim 26; Fig 1; 67pp; English.

CC The invention relates to antimicrobial peptides including reverse
CC antimicrobial peptides, antimicrobial oligopeptides and other
CC antimicrobial compositions such as cecropin P1. The antimicrobial
CC oligopeptides are active against at least one microbial pathogen, and
CC comprise at least one of a first and one of a second peptide monomer,
CC interconnected directly through a peptide bond via the N and C terminals,
CC or indirectly through a disulfide bond or via bridges. At least one of
CC the first and second monomers confers activity. Oligopeptides connected
CC by bridges do not have the structure of Magainin Pre-pro protein. The
CC antimicrobial peptides are used for providing protection to plants
CC against plant pathogens, thus enhancing crop yields. The peptides are
CC also useful for treatment of human or animal disease, as an additive to
CC foods for preservation, or as a preservative in cosmetics and
CC pharmaceuticals. Unlike prior art antimicrobial peptides Magainins 1 and
CC 2, the new antimicrobial peptides don't have undesirable properties, are
CC not subject to extensive proteolytic degradation, are not phytotoxic to
CC the cell, and have a broader range of activity. The present sequence
CC represents an antimicrobial oligopeptide. (Updated on 20-MAR-2003 to
CC correct PF field.) (Updated on 20-MAR-2003 to correct PR field.)
XX

SQ Sequence 37 AA;

	Query Match	100.0%;	Score 19;	DB 2;	Length 37;	
	Best Local Similarity	100.0%;	Pred. No.	1.5e+03;		
	Matches 4;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;	
OY	1 AAGV 4 6 AAGV 9					
Db						
	RESULT 114					
ID	AA92803					
XX	AA92803 standard; peptide; 37 AA.					
AC	AA92803;					
DT	29-AUG-2000 (first entry)					
DE	Synthetic antimicrobial peptide, reverse cecropin A amide (Rev2).					
KW	Magainin; antimicrobial; transgenic plant; proenzyme degradation; Rev4; indolicidin; protein production; reverse peptide.					
OS	Synthetic.					
FH	Key	Location/Qualifiers				
FT	Modified-site 37					
FT	/note= "amidated"					
PN	WO20026344-A1.					
PD	11-MAY-2000.					
PF	29-OCT-1999;	99WO-US025561.				
PR	30-OCT-1998;	98US-0106373P.				
PA	02-NOV-1998;	98US-0106537P.				
	(INTE-) INTERLINK BIOTECHNOLOGIES LLC.					

PA (KENT) UNITV KENTUCKY RES FOUND.
XX
PI Everett NP, Li Q, Lawrence C, Davies MH;
XX
DR WPI; 2000-365597/31.
XX
PT Polypeptides for reducing proteolytic degradation of proteins
PT administered to, or produced by a plant comprise indolicin or its
PT functional equivalents.
XX
PS
XX
XX Example 7; Page 34; 50pp; English.
CC
CC Indolicidin is a potent antimicrobial tridecapeptide, originally purified
CC from cytoplasmic granules of bovine neutrophils. Reverse peptide, Rev4 of
CC indolicidin (see AA92794) was found to have increased stability against
CC plant protease degradation. The ranking of peptide stabilities against
CC proteases present in plant extracellular fluid was shown to be Rev4
CC (AA92796) > Rev6 (AA92801) > Rev3 (AA92802) > Rev2 > Rev8 (AA92804).
CC
CC Expression of antimicrobial peptides in transgenic plants suffers a major
CC limitation in that the foreign peptides are susceptible to rapid
CC degradation by proteases. The invention concerns reducing the extent of
CC protease degradation of a protein applied to, or produced by a plant by
CC administering indolicidin, Rev4 or a functional equivalent to the plant.
CC
CC Transgenic plants expressing indolicidin and Rev4 are useful for
CC production of the antimicrobial peptides. Compositions containing
CC indolicidin and Rev4 are also useful for production of agronomically
CC important proteins in plants
XX
XX
SQ Sequence 37 AA;
Query Match 100.0%; Score 19; DB 3; Length 37;
Best Local Similarity 100.0%; Pred. No. 1.5e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0.

```

      6 AOGV 9
      II I I I
      IIII
      DB
      RESULT 115
      ADC73331
      ID   ADC73331 standard; peptide; 37 AA.
      AC   ADC73331;
      XX
      DT   01-JAN-2004 (first entry)
      DE   Bovine antibacterial peptide Indolicidin, reverse peptide Rev2.
      XX
      KW   Antibacterial peptide; antibacterial, protease resistance; Rev4;
      KW   Indolicidin; plant disease; Rev2.
      OS   Synthetic.
      OS
      PN   US2003131383-A1.
      XX
      PD   10-JUL-2003.
      XX
      PF   23-SEP-2002; 2002US-00252773.
      XX
      PR   30-OCT-1998; 98US-0106373P.
      PR   02-NOV-1998; 98US-0106573P.
      PR   29-OCT-1999; 99US-00431546.
      XX
      PA   (INTE-) INTERLINK BIOTECHNOLOGIES LLC.
      XX
      PI   Everett NP, Li Q, Lawrence C, Davies HM;
      DR   MPI; 2003-829607/77.
      XX
      PT   New Rev4 peptide having enhanced stability to protease degradation,
      PT   useful for controlling plant diseases and protecting other peptides from
      PT   degradation by proteases of plant, fungal, viral, bacterial, insect or

```

PT other origin.
XX
XX Example 7; SEQ ID NO 11; 21pp; English.
XX
CC The invention relates to a peptide comprising an amino acid sequence,
CC designated as Rev4 (ADC73324), or its functional equivalent. Rev4 is a
CC reverse peptide analogue of bovine indolicidin. Also included is a
CC composition for use in protecting a peptide, polypeptide or protein from
CC protease degradation comprising Rev4 or its functional equivalent and a
CC carrier. The peptides and compositions of the present invention are
CC useful for the control of plant diseases and protecting other peptides
CC from degradation by proteases of plant, fungal, viral, bacterial, insect
CC or other origin. The present sequence is an indolicidin reverse peptide
CC Rev2.
XX
SQ Sequence 37 AA;
Query Match 100.0%; Score 19; DB 7; Length 37;
Best Local Similarity 100.0%; Pred. No. 1.5e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AGGV 4
|||
6 AOGV 9
Db
RESULT 116
ABO59877 standard; protein; 38 AA.
XX
XX ABO59877;
AC
XX ABO59877;
XX
DT 29-JUL-2004 (first entry)
XX
DE Human genome derived single exon protein #6111.
XX
XX Human; gene expression; single exon probe; microarray;
KM alternative splicing event; genomic alteration.
XX
OS Homo sapiens.
XX
PN US2003194704-A1.
XX
PD 16-OCT-2003.
XX
PF 03-APR-2002; 2002US-00029386.
XX
PR 03-APR-2002; 2002US-00029386.
XX
PA (PENN/) PENN S G.
PA (RANK/) RANK D R.
PA (HANK/) HANZEL D K.
XX
PI Penn SG, Rank DR, Hanzel DK;
XX
XX WPI; 2004-119264/12.
DR
XX
PT New human genome-derived single exon nucleic acid probes useful for human
PT gene expression analysis, for identifying or characterizing alternative
PT splicing events, for assessing genomic alterations or as tools for
PT surveying tissues.
XX
XX Claim 45; SEQ ID NO 33511; 80pp; English.
PS
XX The invention relates to a nucleic acid probe for measuring human gene
CC expression, comprising any of the 27,400 fully defined nucleotide
CC sequences in the specification, or their complements or fragments, and
CC encoding at least 8 amino acids of any of the 6888 amino acid sequences
CC fully defined in the specification. The probe is a single exon probe that
CC hybridizes under high stringency conditions to a nucleic acid molecule
CC expressed in human cells or tissues. Also included are a spatially-
CC addressable set of single exon nucleic acid probes for measuring human
CC gene expression (comprising a plurality of single exon nucleic acid

CC probes cited above, where each of the plurality of probes is separately
CC and addressably isolatable or amplifiable from the plurality), a single
CC exon microarray for measuring human gene expression, a method of
CC measuring human gene expression, a vector comprising the single exon
CC probe cited above, an ORF-encoded peptide comprising at least 8
CC contiguous amino acids of any of the above-mentioned amino acid
CC sequences (optionally with conservative amino acid substitutions), an
CC isolated antibody that binds specifically to a peptide cited above,
CC methods of selling and/or licensing single exon probes or microarrays to
CC a customer desiring to measure gene expression, a method of providing
CC human gene expression data by subscription, and a computer-readable
CC storage medium which contains a database having a plurality of records
CC (each record including data on the expression of a single exon probe
CC cited above. The probe, methods and apparatus are useful in gene
CC expression analysis. The probes may be used as tools for surveying
CC tissues to detect the presence of expressed messages that contain their
CC specific exon, or in constructing genome-derived single exon microarrays.
CC In addition, the probes are used in identifying and characterizing
CC alternative splicing events, in detecting and characterizing gross
CC alterations in the genomic locus that includes their exon, in assessing
CC smaller genomic alterations, in printing the synthesis of nucleic acids,
CC or in expressing the ORF-encoded peptide. The present sequence is a human
CC single exon probe protein of the invention. Note: The sequence data for
CC this patent did not form part of the printed specification, but was
CC obtained in electronic format directly from USPTO at
CC seqdata.uspto.gov/sequence.html?docid=20030194704
XX
SQ Sequence 38 AA;
Query Match 100.0%; Score 19; DB 8; Length 38;
Best Local Similarity 100.0%; Pred. No. 1.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AGGV 4
|||
24 AOGV 27
Db
RESULT 117
AD297828 standard; protein; 40 AA.
XX
XX AD297828;
AC
XX AD297828;
XX
DT 14-JUL-2005 (first entry)
XX
DE Human coronavirus 229E protease (amino acid residues 121-160).
XX
XX severe acute respiratory syndrome; SARS coronavirus infection;
KM respiratory disease; protease; infection; virucide; respiratory-gen.
XX
OS Human coronavirus 229E.
XX
PN WO2005041904-A2.
XX
PD 12-MAY-2005.
XX
PF 01-NOV-2004; 2004WO-US038391.
XX
PR 31-OCT-2003; 2003US-0516008P.
XX
XX (FULC-) FULCRUM PHARM INC.
PA
XX Freire E, Ottenbrite R, Xiao Y, Velazquez-Campoy A, Leavitt S;
PI Bacha U, Barrila J;
XX
XX WPI; 2005-356029/36.
DR
XX
PT New boron-containing compounds are coronavirus protease inhibitors useful
PT to treat infection caused by coronavirus (severe acute respiratory
PT syndrome-associated coronavirus).
XX
XX Disclosure; SEQ ID NO 18; 418pp; English.
PS

XX The invention relates to boron-containing compounds that are inhibitors
 CC of severe acute respiratory syndrome (SARS) coronavirus protease. The
 CC boron-containing compounds, e.g. boric acid or boronic acids of formulae
 CC (1-4), are fully defined in the specification. Also described are: a
 CC method for inhibiting coronavirus protease comprising contacting the
 CC coronavirus protease with a boron-containing compound, and a method for
 CC detecting coronavirus in a test sample comprising contacting the sample
 CC with a boron-containing compound. The SARS coronavirus protease has one
 CC or more serine or threonine residues at or near its active site.
 CC Administration of a boron-containing compound of the invention is by
 CC oral, rectal, sub-lingual, mucosal, nasal, ophthalmic, subcutaneous,
 CC intramuscular, intravenous, transdermal, spinal, intrathecal, intra-
 CC articular, intra-arterial, sub-arachnoid, bronchial, lymphatic, or
 CC intravascular methods. The invention specifically discloses 403 boron-
 CC containing compounds. The boron-containing compounds are useful for
 CC treating infection caused by SARS coronavirus. This sequence represents a
 CC region (amino acid residues 121-160) of a coronavirus protease that shows
 CC homology with the same region of other coronavirus proteases.

XX Sequence 40 AA;

Query Match 100.0%; Score 19; DB 9; Length 40;

Best Local Similarity 100.0%; Pred. No. 1.7e+03; Mismatches 0; Indels 0; Gaps 0;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AOGV 4
 ||||
 DB 3 AOGV 6

RESULT 118

ABU17305
 ID ABU17305 standard; protein; 41 AA.

XX ABU17305;

XX 19-JUN-2003 (first entry)

XX Protein encoded by Prokaryotic essential gene #2832.

XX Antisense; prokaryotic essential gene; cell proliferation; drug design.

XX Acinetobacter baumannii.

XX WO200271183-A2.

XX 03-OCT-2002.

XX 21-MAR-2002; 2002WO-US009107.

XX 21-MAR-2001; 2001US-00815242.

XX 06-SEP-2001; 2001US-00948993.

XX 25-OCT-2001; 2001US-0342923P.

XX 08-FEB-2002; 2002US-00072851.

XX 06-MAR-2002; 2002US-0362699P.

XX (ELIT-) ELITRA PHARM INC.

XX Wang L, Zamudio C, Malone C, Haselbeck R, Ohlsen KL, Zyskind JW;

XX Wall D, Trawick JD, Carr GJ, Yamamoto R, Forsyth RA, Xu HH;

XX WPI; 2003-029926/02.

XX N-PSDB; ACA21175.

XX New antisense nucleic acids, useful for identifying proteins or screening
 PT for homologous nucleic acids required for cellular proliferation to
 XX isolate candidate molecules for rational drug discovery programs.

XX Claim 25; SEQ ID NO 45229; 1766pp; English.
 CC The invention relates to an isolated nucleic acid comprising any one of
 CC the 6213 antisense sequences given in the specification where expression

CC of the nucleic acid inhibits proliferation of a cell. Also included are:
 CC (1) a vector comprising a promoter operably linked to the nucleic acid
 CC encoding a polypeptide whose expression is inhibited by the antisense
 CC nucleic acid; (2) a host cell containing the vector; (3) an isolated
 CC polypeptide or its fragment whose expression is inhibited by the
 CC antisense nucleic acid; (4) an antibody capable of specifically binding
 CC the polypeptide; (5) producing the polypeptide; (6) inhibiting cellular
 CC proliferation or the activity of a gene in an operon required for
 CC proliferation; (7) identifying a compound that influences the activity of
 CC the gene product or that has an activity against a biological pathway
 CC required for proliferation, or that inhibits cellular proliferation; (8)
 CC identifying a gene required for cellular proliferation or the biological
 CC pathway in which a proliferation-required gene or its gene product lies
 CC or a gene on which the test compound that inhibits proliferation of an
 CC organism acts; (9) manufacturing an antibiotic; (10) profiling a
 CC compound's activity; (11) a culture comprising strains in which the gene
 CC product is overexpressed or underexpressed; (12) determining the extent
 CC to which each of the strains is present in a culture or collection of
 CC strains; or (13) identifying the target of a compound that inhibits the
 CC proliferation of an organism. The antisense nucleic acids are useful for
 CC identifying proteins or screening for homologous nucleic acids required
 CC for cellular proliferation to isolate candidate molecules for rational
 CC drug discovery programs, or for screening homologous nucleic acids
 CC required for proliferation in cells other than *S. aureus*, *S. typhimurium*,
 CC *K. pneumoniae* or *P. aeruginosa*. The present sequence is encoded by one of
 CC the target prokaryotic essential genes. Note: The sequence data for this
 CC patent did not form part of the printed specification, but was obtained
 CC in electronic format directly from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences

XX Sequence 41 AA;

Query Match 100.0%; Score 19; DB 6; Length 41;

Best Local Similarity 100.0%; Pred. No. 1.7e+03; Mismatches 0; Indels 0; Gaps 0;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AOGV 4
 ||||
 DB 13 AOGV 16

RESULT 119

AEB94393
 ID AEB94393 standard; protein; 41 AA.

XX AEB94393;

XX 20-OCT-2005 (first entry)

XX Human AMPD-3 protein, SEQ ID NO: 115.

XX AMPD-related gene modulator; phagocytosis-related gene modulator;

XX age related macular degeneration; ophthalmological; ocular disease;

XX phagocytosis; therapeutic; animal disease model; screening; AMPD-3.

XX Homo sapiens.

XX Key Location/Qualifiers

XX Misc-difference /note= "Encoded by ACC"

XX US2005176662-A1.

XX 11-AUG-2005.

XX 09-FEB-2004; 2004US-00773446.

XX 09-FEB-2004; 2004US-00773446.

XX (UMI-) UNIV MIAMI.

XX Inana G, McLaren M;

DR WPI; 2005-541777/55.
DR N-PSDB; AEB94295.
XX
PT Method for delaying/reversing a retinal or choroidal degenerative disease
PT or condition in a subject comprises contacting a retinal or choroidal
PT cell with an agent that modulates the expression/activity of a
PT phagocytosis-related gene.
PS Disclosure; SEQ ID NO 115; 142bp; English.
XX
CC The present invention relates to multiple genes related to age-related
CC macular degeneration (AMD) and/or phagocytosis by retinal pigment
CC epithelial (RPE) cells of the eye. The methods and compositions of the
CC invention includes detecting and treating AMD and other retinal
CC degenerative conditions based on these phagocytosis-related and/or AMD-
CC related genes. The invention is useful for delaying/reversing/creating a
CC retinal or choroidal degenerative disease or condition such as age-
CC related macular degeneration (AMD) in a subject who is suffering from AMD
CC or at risk of developing AMD. The invention also provides animal models
CC useful for testing therapeutic compounds and treatment protocols for AMD
CC and gene arrays including polymorphic variants of phagocytosis-related
CC and/or AMD-related genes, useful in genetic screening of nucleic acid
CC samples from subjects to obtain profiles of polymorphic variant
CC sequences in a plurality of genes associated with AMD. The present
CC sequence is human AMDP-3 (also designated as AMD-related phagogene; AMDP
CC gene) protein.
XX
SQ Sequence 41 AA;
XX
Query Match 100.0%; Score 19; DB 9; Length 41;
Best Local Similarity 100.0%; Pred. No. 1.7e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AGGV 4
|||
Db 12 AGGV 15
XX
RESULT 120
AAM24224
ID AAM24224 standard; protein; 45 AA.
XX
AC AAM24224;
XX
DT 12-OCT-2001 (first entry)
XX
DE Human EST encoded protein SEQ ID NO: 1749.
XX
KM Human; sheep; pig; cow; fruit fly; yeast; hamster; macaque; horse;
KM tomato; monkey; dog; sea urchin; expressed sequence tag; EST;
KM diagnostics; forensic test; gene mapping; genetic disorder; biodiversity;
KM gene therapy; nutrition.
XX
OS Homo sapiens.
XX
PN WO200154477-A2.
XX
PD 02-AUG-2001.
XX
PF 25-JAN-2001; 2001WO-US002687.
XX
PR 25-JAN-2000; 2000US-00491404.
PR 17-JUL-2000; 2000US-00617746.
PR 03-AUG-2000; 2000US-00631451.
PR 15-SEP-2000; 2000US-00663870.
XX
PA (HYSE-) HYSEQ INC.
XX
PI Tang YT, Liu C, Zhou P, Qian XB, Wang Z, Chen R, Aundi V;
PI Cao Y, Drmanac RA, Zhang J, Werhman T;
XX
XX WPI; 2001-476164/51.
DR N-PSDB; AAH98883.

XX
XX Isolated polypeptide for treatment of diseases, diagnostics, raising
PT antibodies and research use.
PT
XX
PS Claim 20; Page 1154; 1275pp; English.
XX
CC The present invention provides the protein and coding sequences of novel
CC proteins from a variety of organisms, including human, dog, cat, horse,
CC cow, pig, hamster, monkey, macaque, yeast, bacteria, fruit fly, sea
CC urchin and tomato. These were derived from expressed sequence tags (ESTs)
CC from the organism of interest. They can be used in diagnostics,
CC forensics, gene mapping, identification of mutations, to assess
CC biodiversity and for nutritional purposes. The present sequence is a
CC protein of the invention
XX
SQ Sequence 45 AA;
XX
Query Match 100.0%; Score 19; DB 4; Length 45;
Best Local Similarity 100.0%; Pred. No. 1.9e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AGGV 4
|||
Db 40 AGGV 43
XX
RESULT 121
ABB90716
ID ABB90716 standard; peptide; 45 AA.
XX
AC ABB90716;
XX
DT 29-AUG-2003 (revised)
DT 29-JUL-2002 (first entry)
XX
DE Chlamydia pneumoniae cp7107 protein homology region.
XX
KM Chlamydia pneumoniae; antigen; immunogen; vaccine; diagnosis;
KM human respiratory disease; cardiovascular disease; atherosclerosis;
KM coronary artery disease; carotid artery stenosis; myocardial infarction;
KM cerebrovascular disease; aortic aneurysm; claudication; stroke;
KM strain CWL029.
XX
OS Chlamydia pneumoniae.
XX
PN WO200202606-A2.
XX
PD 10-JAN-2002.
XX
PF 03-JUL-2001; 2001WO-IB001445.
XX
PR 03-JUL-2000; 2000GB-00016363.
PR 11-JUL-2000; 2000GB-00017047.
PR 21-JUL-2000; 2000GB-00017983.
PR 07-AUG-2000; 2000GB-00019368.
PR 18-AUG-2000; 2000GB-00020440.
PR 14-SEP-2000; 2000GB-00022583.
PR 10-NOV-2000; 2000GB-00027549.
PR 22-DEC-2000; 2000GB-00031706.
XX
PA (CHIR-) CHIRON SPA.
XX
PI Ratti G, Grandi G;
XX
DR WPI; 2002-154726/20.
XX
PT Novel Chlamydia pneumoniae protein useful in the manufacture of a
PT medicament for treatment or prevention of infection due to Chlamydia,
PT preferably Chlamydia pneumoniae, and for diagnostic purposes.
XX
PS Disclosure; Fig 191; 364pp; English.
XX
XX Sequences ABB90526-ABB90715 represent novel proteins from Chlamydia
CC

CC	pneumoniae (strain CWL029), and ABL91184-ABL91373 represent DNA encoding
CC	them. The proteins are predicted to be immunogenic and may therefore be
CC	useful in vaccine production and for diagnostic purposes. Chlamydia
CC	pneumoniae is a common cause of respiratory disease in humans, and is
CC	also involved in the development of cardiovascular diseases such as
CC	atherosclerosis, coronary artery disease, carotid artery stenosis,
CC	myocardial infarction, cerebrovascular disease, aortic aneurysm,
CC	claudication and stroke. The proteins and nucleic acids of the invention
CC	may be used in vaccines and pharmaceutical compositions for the
CC	prevention or treatment of chlamydial infections, particularly Chlamydia
CC	pneumoniae infections. The proteins may also be used in the detection of
CC	Chlamydia pneumoniae, and the nucleic acids may be used in PCR, branched
CC	DNA probe assay or blotting techniques for determining Chlamydia
CC	pneumoniae gene expression. Sequences ABB90716-ABB90720 represent regions
CC	of Chlamydia pneumoniae proteins of the invention which share some
CC	sequence homology. (Updated on 29-AUG-2003 to standardise OS field)
CC	
XX	
SO	Sequence 45 AA;
QY	1 AOGV 4
DB	37 AOGV 40
RESULT 122	
AAK69856	100.0%; Score 19; DB 5; Length 45;
ID	AAK69856 standard; peptide; 49 AA.
XX	
AC	AAK69856;
XX	
DT	25-MAR-2003 (revised)
DT	18-MAR-1995 (first entry)
XX	
DE	Fibronectin peptide.
XX	
KW	Rheumatoid arthritis; diagnosis; therapy; fibronectin; streptokinase.
OS	Synthetic.
XX	
FH	Key
FT	Location/Qualifiers
FT	Peptide 1..49
FT	Misc-difference 27..32
FT	/note="SEQ ID No.1"
XX	
PN	W09417411-A1.
PD	04-AUG-1994.
XX	
PF	27-JAN-1994; 94WO-US001077.
XX	
PR	27-JAN-1993; 93US-00009471.
XX	
PA	(UYDU-) UNIV DUKE.
PA	(TRIN-) TRINITY LAB INC.
XX	
PI	Pizzo SV, Gonzalez-Gronow M, Clinton BA;
XX	
DR	WPI; 1994-264260/32.
XX	
PT	Diagnosis and treatment of rheumatoid arthritis - using a predictive
PT	factor peptide corresp. to a region common to fibronectin and
PT	streptokinase.
XX	
PS	Disclosure; Page 55; 83pp; English.
CC	The peptide corresponds to amino acids 1741-1790 of fibronectin, and
CC	regions of sequence similarity with AAK57728 (streptokinase peptide) are
CC	shown in Fig.1. A common peptide region is highlighted, and this peptide

is used in the diagnosis of the onset/presence of rheumatoid arthritis,
for monitoring the progress of therapy, or for therapy. (Updated on 25-
MAR-2003 to correct PN field.)

Sequence 49 AA;

	Query Match	Similarity	Score 19;	DB 2;	Length 49;
Oy	1 AOCV 4 	100.0%;	Pred. No. 2e+03;		
Db	32 AOGV 35	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

RESULT 123

ABB09222

ABB09222 standard; peptide; 49 AA.

AC ABB09222;

DT 08-JUL-2002 (first entry)

DE Mouse putative transmembrane anchor sequence SEQ ID NO:16.

XX GFRalpha4; glycosyl-phosphatidylinositol; GPI; GDNF; cytostatic;
XX glycosyl-phosphatidylinositol-linked GDNF family alpha-receptor;
KW glial cell line derived neurotrophic factor; osteophtic; tumour;
KM neuroprotective; anticonvulsant; neoplasia; endocrine tumour;
KW medullary thyroid carcinoma; pheochromocytoma; parathyroid hyperplasia;
XX neuronal disorder; aberrant axonal sprouting.
XX
OS Mus musculus.
PN WO200162795-A1.
PD 30-AUG-2001.
PF 14-NOV-2000; 2000WO-FI000994.
PR 21-FEB-2000; 2000FI-00000394.
PA (LICE-) LICENTIA LTD.
PI Airakinen M, Saarna M, Poterlaev D, Lindahl M, Timmusk T;
PI Rossi J;
PI WPI; 2001-596722/67.
DR New nucleic acid sequence for manufacturing polypeptides for treating
PT endocrine cancers comprises a cDNA encoding a splicing isoform of
PT mammalian growth factor receptor (GFR) alpha4.
XX
XX Disclosure; Page 127; 143pp; English.

The present invention describes an isolated and purified cDNA sequence
encoding a splicing isoform of a mammalian growth factor receptor
(GFR) alpha4, or its fragments. GFRalpha4 sequences have cyostatic,
osteophtic, neuroprotective and anticonvulsant activities. GFRalpha4 is
a glycosyl-phosphatidylinositol (GPI)-linked glial cell line-derived
neurotrophic factor (GDNF) family alpha-receptor. A GFRalpha4
polynucleotide sequence can be used for recording GFRalpha4 mediated
signalling in neurons or endocrine cells such as thyroid calcitonin-
producing C-cells, parathyroid gland cells, adrenal chromaffin cells, or
cells from the pituitary intermediate lobe. GFRalpha4 protein and
polynucleotide sequences can be are used for manufacturing polypeptides
useful for diagnosing and/or treating tumours in parathyroid gland cells,
adrenal chromaffin cells, cells of pituitary intermediate lobe,
neoplasia, endocrine tumours, medullary thyroid carcinoma and
pheochromocytoma, parathyroid hyperplasia, neuronal disorders or for
preventing neuronal death or aberrant axonal sprouting. The present
sequence represents the mouse putative transmembrane anchor sequence,
which can be used in the identification and isolation of nucleotide

CC sequences encoding GFRalpha4 proteins in the present invention
 XX
 SQ Sequence 49 AA;
 Query Match 100.0%; Score 19; DB 4; Length 49;
 Best Local Similarity 100.0%; Pred. No. 2e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 ACGV 4
 DB 21 ACGV 24
 RESULT 124
 ID ADN11831 standard; peptide: 49 AA.
 XX
 AC ADN11831;
 XX
 DT 17-JUN-2004 (first entry)
 XX
 DE Fibronectin fragment.
 XX
 KM mannose-6-phosphate/insulin-like growth factor-2 receptor; CD222;
 KM fibrinolysis; cell adhesion; cell migration;
 KM transforming growth factor beta; TGFb; activation; apoptosis;
 KM arteriosclerosis; restenosis; autoimmunity; inflammation; cancer;
 KM streptokinase; plasminogen activation; vasotropic; cyostatic;
 KM immunosuppressive; antiinflammatory.
 XX
 OS Undefined.
 XX
 PN WO2004013177-A1.
 XX
 PD 12-FEB-2004.
 XX
 PF 05-AUG-2003; 2003WO-AT000224.
 XX
 PR 06-AUG-2002; 2002AT-00001193.
 XX
 PA (STOC/) STOCKINGER H.
 PI Stockinger H, Binder B, Lekea V, Godar S, Breuss J;
 XX
 DR WPI; 2004-157103/15.
 XX
 PT Use of mannose-6-phosphate/insulin-like growth factor-2 receptor (CD222)
 PT as regulator of urokinase plasminogen activator functions, useful for
 PT treating arteriosclerosis, restenosis, autoimmunity, inflammation and
 PT cancer.
 XX
 PS Disclosure; Fig 4; 35pp; German.
 XX
 CC This invention describes a novel mannose-6-phosphate/insulin-like growth
 CC factor-2 receptor (CD222) and its fragments or derivatives, as regulator
 CC of fibrinolysis, cell adhesion or migration, transforming growth factor
 CC beta (TGFb) activation and apoptosis, specifically arteriosclerosis,
 CC restenosis, autoimmunity, inflammation and cancer. The N-terminal region
 CC of CD222 (which is similar to streptokinase) is the active component, and
 CC can be used in the form of a peptide or other derivative. CD222 regulates
 CC plasminogen activation, cell adhesion and migration, TGFb activation and
 CC apoptosis mediated through the urokinase-type plasminogen activator (uPA)
 CC receptor (CD87). The products of the invention have antiarteriosclerotic,
 CC vasotropic, cyostatic, immunosuppressive and antiinflammatory activity.
 CC
 XX Sequence 49 AA;
 SQ
 Query Match 100.0%; Score 19; DB 8; Length 49;
 Best Local Similarity 100.0%; Pred. No. 2e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 ACGV 4
 DB 21 ACGV 24

DB 39 ACGV 42
 RESULT 125
 ID ABO54048 standard; protein: 49 AA.
 XX
 AC ABO54048;
 XX
 DT 29-JUL-2004 (first entry)
 XX
 DE Human genome derived single exon protein #282.
 XX
 KM Human; gene expression; single exon probe; microarray;
 KM alternative splicing event; genomic alteration.
 XX
 OS Homo sapiens.
 XX
 PN US2003194704-A1.
 XX
 PD 16-OCT-2003.
 XX
 PF 03-APR-2002; 2002US-00029386.
 XX
 PR 03-APR-2002; 2002US-00029386.
 XX
 PA (PENN/) PENN S G.
 PA (RANK/) RANK D R.
 PA (HANZ/) HANZEL D K.
 XX
 PI Penn SG, Rank DR, Hanzel DK;
 XX
 DR WPI; 2004-119264/12.
 XX
 PT New human genome-derived single exon nucleic acid probes useful for human
 PT gene expression analysis, for identifying or characterizing alternative
 PT splicing events, for assessing genomic alterations or as tools for
 PT surveying tissues.
 XX
 OS Claim 45; SEQ ID NO 27682; 80pp; English.
 XX
 PS
 CC The invention relates to a nucleic acid probe for measuring human gene
 CC expression, comprising any of the 27,400 fully defined nucleotide
 CC sequences in the specification, or their complements or fragments, and
 CC encoding at least 8 amino acids of any of the 6888 amino acid sequences
 CC fully defined in the specification. The probe is a single exon probe that
 CC hybridises under high stringency conditions to a nucleic acid molecule
 CC expressed in human cells or tissues. Also included are a spatially-
 CC addressable set of single exon nucleic acid probes for measuring human
 CC gene expression (comprising a plurality of single exon nucleic acid
 CC probes cited above, where each of the plurality of probes is separately
 CC and addressably isolatable or amplifiable from the plurality), a single
 CC exon microarray for measuring human gene expression, a method of
 CC measuring human gene expression, a vector comprising the single exon
 CC probe cited above, an ORF-encoded peptide comprising at least 8
 CC contiguous amino acids of any of the above-mentioned amino acid
 CC sequences (optionally with conservative amino acid substitutions), an
 CC isolated antibody that binds specifically to a peptide cited above,
 CC methods of selling and/or licensing single exon probes or microarrays to
 CC a customer desiring to measure gene expression, a method of providing
 CC human gene expression data by subcription, and a computer-readable
 CC storage medium which contains a database having a plurality of records
 CC (each record including data on the expression of a single exon probe
 CC cited above). The probe, methods and apparatus are useful in gene
 CC expression analysis. The probes may be used as tools for surveying
 CC tissues to detect the presence of expressed messages that contain their
 CC specific exon, or in constructing genome-derived single exon microarrays.
 CC In addition, the probes are used in identifying and characterising
 CC alternative splicing events, in detecting and characterising gross
 CC alterations in the genomic locus that includes their exon, in assessing
 CC smaller genomic alterations, in priming the syntheses of nucleic acids,
 CC or in expressing the ORF-encoded peptide. The present sequence is a human
 CC single exon probe protein of the invention. Note: The sequence data for

CC this patent did not form part of the printed specification, but was
CC obtained in electronic format directly from USPTO at
CC seqdata.uspto.gov/sequence.html?docID=20030194704
XX

XX Sequence 49 AA;

Query Match 100.0%; Score 19; DB 8; Length 49;
Best Local Similarity 100.0%; Pred. No. 2e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AOGV 4
|||
Db 44 AOGV 47

RESULT 126
AAE18040
ID AAE18040 standard; protein; 51 AA.
XX
AC AAE18040;
XX
DT 07-MAY-2002 (first entry)
XX
DE Human ion channel, ion-172.

XX Human, ion channel; neurological disorder; psychiatric disorder;
XX schizophrenia; attention deficit hyperactivity disorder; depression;
XX proliferation disease; migraine; ischaemia; neurodegenerative disease;
XX macular degeneration; Alzheimer's disease; congestive heart failure;
XX glaucoma; Parkinson's disease; cardiovascular disease; arrhythmia;
XX high blood pressure; xeroderma; metabolic disease; neuroprotective;
XX obesity; hormonal disorder; polycystic ovarian syndrome; gene therapy;
XX alopecia; anxiety; stroke; neuroleptic; nootropic; cancer; diabetes.

XX Homo sapiens.

XX OS
XX Key Location/Qualifiers
FT Misc-difference 28..29
FT /note="Encoded by AGCTGAGC of the inverse complementary
FT strand of SEQ.ID.NO.16 (AAD28740)"
XX

XX WO200192303-A2.

XX 06-DEC-2001.

XX 25-MAY-2001; 2001WO-US016967.

XX 26-MAY-2000; 2000US-0207119P.

XX 26-MAY-2000; 2000US-0207152P.

XX 26-MAY-2000; 2000US-0207257P.

XX (PHAA) PHARMACIA & UPJOHN CO.

XX Benjamin CW, Roberda SL, Karnovsky AM, Ruble CL, Gotow LF;

XX WPI; 2002-147617/19.

XX N-PSDB; AAD28740.

XX New human ion channel polypeptides and nucleic acids, useful for treating
XX or diagnosing neurological, psychiatric or neurodegenerative diseases,
XX e.g. depression, anxiety, stroke, ischaemia, or Alzheimer's or Parkinson's
XX disease.

XX Claim 31; Page 78; 126pp; English.

XX The invention relates to ion channel polypeptides designated as ion-x
XX (where x is 157-175) and their corresponding nucleic acids. The ion-x
XX sequences and their modulators are useful for the treatment of human
XX diseases and conditions such as neurological or psychiatric disorders.
XX These compounds are useful for treating schizophrenia, attention deficit
XX hyperactivity disorder, depression, anxiety, stroke, migraine, ischaemia
XX or neurodegenerative disease (e.g. macular degeneration, Alzheimer's
XX disease, glaucoma, or Parkinson's disease). The compounds that modulate

CC ion channels can be used for treating of cardiovascular diseases (e.g.
CC congestive heart failure, arrhythmia, high blood pressure or xeroderma),
CC metabolic diseases and disorders (e.g. diabetes or obesity), hormonal
CC disorders (e.g. polycystic ovarian syndrome or alopecia) and
CC proliferation diseases and cancers. The ion channels are also useful as
CC targets for discovering ligands or drugs to treat many diverse disorders
CC and defects. The ion-x sequences and their modulators may also be used in
CC diagnostic assays for such diseases or conditions. Ion-x nucleic acids
CC are used in gene therapy. The present amino acid sequence is human ion
XX channel designated as ion-172
XX

XX Sequence 51 AA;

Query Match 100.0%; Score 19; DB 5; Length 51;
Best Local Similarity 100.0%; Pred. No. 2.1e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AOGV 4
|||
Db 39 AOGV 42

RESULT 127
ADN48261
ID ADN48261 standard; protein; 51 AA.
XX
AC ADN48261;
XX
DT 01-JUL-2004 (first entry)
XX

XX Thermococcus kodakaraensis KOD1 protein sequence SeqID2139.

XX gene disruption; gene targeting; marker gene; transformation;
XX homologous recombination; hyperthermostable archaeobacterium; KOD1;
XX gene structure; gene function; enzyme activity; medicine;
XX forensic science; food; drug inspection; molecular biology; immunology.

XX Thermococcus kodakaraensis.

XX WO2004022736-A1.

XX 18-MAR-2004.

XX 29-AUG-2003; 2003WO-IB003597.

XX 30-AUG-2002; 2002JP-00319011.

XX (NISC-) JAPAN SCI & TECHNOLOGY CORP.

XX Imanaka T, Atomi H;

XX WPI; 2004-257583/24.

XX Method for disrupting targeted gene in genome of organism particularly
XX PT thermostable bacterium and with genome chips for analysis, applicable in
XX PT studying gene structure and functions.
XX

XX Claim 9; SEQ ID NO 2139; 598pp; Japanese.

XX This invention relates to a novel method for targeting disruption of an
XX arbitrary gene in a genome of an organism which comprises providing the
XX whole sequential data of the genome of such organism, selecting at least
XX CC 1 arbitrary region in the sequence, providing a vector that contains a
XX CC sequence homologous with the selected region and a marker gene,
XX CC transformation, and homologous recombination. The genome is preferably
XX CC the genome of a hyperthermostable archaeobacterium, particularly
XX CC Thermococcus kodakaraensis KOD1. The method is for targeting the
XX CC disruption of a gene in the genome of an organism, which is applicable in
XX CC studying gene structure and functions as well as enzyme activities of
XX CC encoded proteins and useful in medicine, forensic science, food or drug
XX CC inspection, molecular biology and immunology. With this method, the
XX CC disruption of a gene at an arbitrary position in a genome can be achieved
XX CC efficiently and reliably. The present sequence is that of a protein

PR 17-NOV-2000; 2000US-0249211P.
 PR 17-NOV-2000; 2000US-0249212P.
 PR 17-NOV-2000; 2000US-0249213P.
 PR 17-NOV-2000; 2000US-0249214P.
 PR 17-NOV-2000; 2000US-0249215P.
 PR 17-NOV-2000; 2000US-0249216P.
 PR 17-NOV-2000; 2000US-0249217P.
 PR 17-NOV-2000; 2000US-0249218P.
 PR 17-NOV-2000; 2000US-0249219P.
 PR 17-NOV-2000; 2000US-0249220P.
 PR 17-NOV-2000; 2000US-0249221P.
 PR 17-NOV-2000; 2000US-0249222P.
 PR 17-NOV-2000; 2000US-0249223P.
 PR 17-NOV-2000; 2000US-0249224P.
 PR 17-NOV-2000; 2000US-0249225P.
 PR 17-NOV-2000; 2000US-0249226P.
 PR 17-NOV-2000; 2000US-0249227P.
 PR 17-NOV-2000; 2000US-0249228P.
 PR 17-NOV-2000; 2000US-0249229P.
 PR 17-NOV-2000; 2000US-0249230P.
 PR 01-DEC-2000; 2000US-0250160P.
 PR 01-DEC-2000; 2000US-0250391P.
 PR 05-DEC-2000; 2000US-0251030P.
 PR 05-DEC-2000; 2000US-0251988P.
 PR 05-DEC-2000; 2000US-0256719P.
 PR 06-DEC-2000; 2000US-0251479P.
 PR 08-DEC-2000; 2000US-0251856P.
 PR 08-DEC-2000; 2000US-0251868P.
 PR 08-DEC-2000; 2000US-0251869P.
 PR 08-DEC-2000; 2000US-0251989P.
 PR 08-DEC-2000; 2000US-0251990P.
 PR 11-DEC-2000; 2000US-0254097P.
 PR 05-JAN-2001; 2001US-0259678P.
 PA (HUMA-) HUMAN GENOME SCI INC.
 PI Rosen CA, Barash SC, Ruben SM;
 XX WPI; 2001-483426/52.
 DR N-PSDB; AAK59134.
 XX
 PT Nucleic acids encoding human immune/hematopoietic antigen polypeptides,
 PT useful for preventing, diagnosing and/or treating cancers and metastasis.
 XX
 PS Claim 11; SEQ ID NO 13946; 3071pp + Sequence Listing; English.
 XX
 CC AAK54951 to AAK64702 encode the human immune/hematopoietic antigen (I)
 CC amino acid sequences given in AAK62170 to AAK61921. (I) Have cytostatic
 CC activity, and can be used in gene therapy and vaccine production. (I)
 CC proteins and polynucleotides may be used in the prevention, diagnosis and
 CC treatment of diseases associated with inappropriate (I) expression. For
 CC example, they may be used to treat disorders associated with decreased
 CC expression by rectifying mutations or deletions in a patient's genome
 CC that affect the activity of (I) by expressing inactive proteins or to
 CC supplement the patient's own production of (I). Additionally, (I)
 CC polynucleotides may be used to produce the secreted (I), by inserting the
 CC nucleic acids into a host cell and culturing the cell to express the
 CC protein. (I) proteins and polynucleotides may be used to prevent,
 CC diagnose and treat immune/hematopoietic-related diseases, especially
 CC cancers and cancer metastases of hematopoietic-derived cells. AAK64703
 CC to AAK67694 represent human immune/hematopoietic antigen genomic
 CC sequences from the present invention. AAK54942 to AAK54950 and AAK62169
 CC represent sequences used in the exemplification of the present invention
 XX
 SQ Sequence 52 AA;
 Query Match 100.0%; Score 19; DB 4; Length 52;
 Best Local Similarity 100.0%; Pred. No. 2.2e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 AOGV 4
 DB 27 AOGV 30
 RESULT 129
 AAB58486
 ID AAB58486 standard; protein; 53 AA.

XX
 AC AAB58486;
 XX
 DT 14-MAR-2001 (first entry)
 XX
 DE Lung cancer associated polypeptide sequence SEQ ID 824.
 XX
 KW Human, lung cancer associated protein; neuroprotective; cytoskeletal;
 KW cardiolactive; immunomodulatory; muscular active; vulnary;
 KW gastrointestinal; nephrotropic; antinefactive; gynecological;
 KW antibacterial; diagnosis; neural disorder; immune disorder; reproductive;
 KW proliferative disorder; wound healing; infectious disease.
 OS Homo sapiens.
 XX
 PN WO20055180-A2.
 XX
 PD 21-SEP-2000.
 XX
 PF 08-MAR-2000; 2000WO-US005918.
 XX
 PR 12-MAR-1999; 99US-0124270P.
 XX
 PA (HUMA-) HUMAN GENOME SCI INC.
 PA (ROSE/) ROSEN C A.
 XX
 PI Ruben SM;
 XX
 DR WPI; 2000-587514/55.
 DR N-PSDB; AAF18362.
 XX
 PT Lung cancer associated gene sequences, referred to as lung cancer
 PT antigens, useful for treatment, prevention, and diagnosis of disorders
 PT such as lung cancer.
 XX
 PS Claim 11; Page 1366; 1425pp; English.
 XX
 CC Polynucleotide sequences AAF17982 - AAF18424 encode human lung cancer
 CC associated proteins represented in AAB58106 - AAB58548. Lung cancer
 CC associated proteins and polynucleotide sequences, their agonists, and
 CC antagonists may have neuroprotective; cytoskeletal; cardiolactive;
 CC immunomodulatory; muscular active general; vulnary; gastrointestinal
 CC general; nephrotropic; antinefactive; gynecological; or antibacterial
 CC activity. The invention also includes antibodies specific for the protein
 CC or polynucleotide sequences. The lung cancer associated polynucleotide
 CC sequences may be used for detection of lung cancer, chromosome
 CC identification, as chromosome markers, and for numerous other diagnostic
 CC or research purposes. The proteins may be used to treat disorders such as
 CC neural, immune, muscular, reproductive, gastrointestinal, pulmonary,
 CC cardiovascular, renal, and proliferative disorders. The proteins may also
 CC be used in the treatment of wounds and infectious diseases.
 CC Polynucleotide sequences AAF18425 - AAF18433 and peptide AAB58549 are
 CC used in the course of the invention for the identification and
 CC characterisation of the polynucleotide and protein sequences
 XX
 SQ Sequence 53 AA;
 Query Match 100.0%; Score 19; DB 3; Length 53;
 Best Local Similarity 100.0%; Pred. No. 2.2e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 AOGV 4
 DB 39 AOGV 42
 RESULT 130
 AABP00538
 ID AABP00538 standard; protein; 53 AA.
 XX
 AC AABP00538;
 XX
 DT 24-JUN-2002 (first entry)

XX Human ORFX protein sequence SEQ ID NO:1058.
 DE
 XX
 KM Human, open reading frame, ORFX; gene therapy; cancer; cirrhosis;
 KM hyperproliferative disorder; psoriasis; benign tumour; haemorrhage;
 KM degenerative disorder; osteoarthritis; neurodegenerative disorder;
 KM cardiovascular disease; diabetes mellitus; systemic lupus erythematosus;
 KM hyperextension; hypothyroidism; cholesterol ester storage disease;
 KM immune deficiency; immune disorder; infectious disease;
 KM autoimmune disorder; rheumatoid arthritis; autoimmune thyroiditis;
 KM myasthenia gravis.
 XX
 OS Homo sapiens.
 XX
 PN W0200192523-A2.
 XX
 PD 06-DEC-2001.
 XX
 PF 29-MAY-2001; 2001WO-US010836.
 XX
 PR 30-MAY-2000; 2000US-0206132P.
 PR 29-AUG-2000; 2000US-0228716P.
 XX
 PA (CURA-) CURAGEN CORP.
 XX
 PI Shimkets RA, Leach MD;
 XX
 DR WPI; 2002-106308/14.
 DR N-PSDB; ABN16290.
 XX
 PT Novel human polypeptides and polynucleotides useful for diagnosing,
 PT preventing and treating cardiovascular disease, neurodegenerative,
 PT hyperproliferative disorders and autoimmune disorders.
 XX
 PS Disclosure; SEQ ID NO 1058; 1037pp; English.
 XX
 CC The present invention describes substantially purified human proteins
 CC (referred to as open reading frame, ORFX, where X is 1-11491 (see Table 1
 CC in the specification). ABN15762 to ABN27252 encode the human ORFX
 CC proteins given in ABP00010 to ABP11500. ORFX proteins are useful for
 CC treating or preventing a pathology associated with an ORFX-associated
 CC disorder in humans, and in the manufacture of a medicament for treating a
 CC syndrome associated with ORFX-associated disorder. ORFX polynucleotide
 CC sequences can be used in gene therapy. ORFX sequences can be used in the
 CC treatment of cancer, hyperproliferative disorders, cirrhosis of liver,
 CC psoriasis, benign tumours, keloid, degenerative disorders, haemorrhage,
 CC osteoarthritis, neurodegenerative disorders, disorders related to organ
 CC transplantation, cardiovascular diseases, diabetes mellitus, systemic
 CC lupus erythematosus, hypertension, hypothyroidism, cholesterol ester
 CC storage disease, various immune deficiencies and disorders, infectious
 CC diseases, autoimmune disorders such as multiple sclerosis, rheumatoid
 CC arthritis, autoimmune thyroiditis, myasthenia gravis, graft-versus-host
 CC disease and autoimmune inflammatory eye disease. ORFX proteins are also
 CC useful for treating burns, incisions, ulcers, for treating osteoporosis,
 CC bone degenerative disorders, or periodontal disease, and for gut
 CC protection or regeneration and treatment of lung or liver fibrosis,
 CC reperfusion injury in various tissues and conditions resulting from
 CC systemic cytokine damage. N.B. The sequence data for this patent did not
 CC form part of the printed specification, but was obtained in electronic
 CC format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
 CC
 XX
 SQ Sequence 53 AA;
 XX
 Query Match 100.0%; Score 19; DB 5; Length 53;
 Best Local Similarity 100.0%; Pred. No. 2.2e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 AGGV 4
 ||||
 Db 8 AGGV 11
 RESULT 131

AAE24593
 ID AAE24593 standard; protein; 54 AA.
 XX
 AC AAE24593;
 XX
 DT 04-OCT-2002 (first entry)
 XX
 DE Fish B93 programmed cell death modulating protein conserved domain.
 XX
 KM Fish; cancer; programmed cell death modulating protein; adenocarcinoma;
 KM cellular apoptosis; leukaemia; acquired immunodeficiency syndrome; AIDS;
 KM neurodegenerative disease; Alzheimer's disease; retinitis pigmentosa;
 KM Parkinson's disease; myelodysplastic syndrome; cerebellar degeneration;
 KM aplastic anaemia; ischaemic injury; myocardial infarction; stroke;
 KM reperfusion injury; toxin-induced disease; genetic immunodeficiency;
 KM vaccine; gene therapy; lymphoma; cytostatic; melanoma; neuroprotective;
 KM myeloma; nootropic; vasotropic; immunostimulant; cerebroprotective;
 KM cardiac; B93 protein.
 XX
 OS Tetraodon nigroviridis.
 XX
 PN W0200234882-A2.
 XX
 PD 02-MAY-2002.
 XX
 PF 29-OCT-2001; 2001WO-US048053.
 XX
 PR 27-OCT-2000; 2000US-0243865P.
 XX
 PA (UYMA-) UNIV MARYLAND BIOTECHNOLOGY INST.
 XX
 PI Baehrecke EH;
 XX
 DR WPI; 2002-479717/51.
 XX
 PT Novel programmed cell death modulating proteins, useful for treating or
 PT preventing disorders associated with abnormal cell proliferation and
 PT apoptosis such as cancer, stroke, Parkinson's disease, myocardial
 PT infarction.
 XX
 PS Claim 1; Fig 1; 89pp; English.
 XX
 CC The present invention relates to novel programmed cell death modulating
 CC proteins and polynucleotides encoding such proteins. Sequences of the
 CC invention are useful to screen potential cellular apoptosis inhibiting
 CC compounds to determine their use as therapeutic agents for treatment of
 CC diseases associated with increased programmed cell death. They are also
 CC useful for treating or preventing disorders associated with decrease in
 CC apoptosis. Programmed cell death modulating sequences are useful for
 CC treating or preventing cancer e.g. adenocarcinoma, leukemia, lymphoma,
 CC melanoma, myeloma. Inhibition of the activity of the sequences of the
 CC invention are useful for treating disorders associated with increase in
 CC cell death or apoptosis such as acquired immunodeficiency syndrome
 CC (AIDS), neurodegenerative diseases (e.g., Alzheimer's disease, retinitis
 CC pigmentosa, Parkinson's disease and cerebellar degeneration), ischaemic
 CC injuries (e.g., myocardial infarction, stroke, reperfusion injury),
 CC myelodysplastic syndromes (e.g., aplastic anaemia), toxin-induced
 CC diseases and other infectious or genetic immunodeficiencies. Sequences of
 CC the invention are used as vaccines and in gene therapy. The present
 CC sequence is fish B93 programmed cell death modulating protein conserved
 CC domain
 CC
 XX
 SQ Sequence 54 AA;
 XX
 Query Match 100.0%; Score 19; DB 5; Length 54;
 Best Local Similarity 100.0%; Pred. No. 2.3e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 AGGV 4
 ||||
 Db 36 AGGV 39

RESULT 132
AB03527
ID ABB03527 standard; protein; 55 AA.
XX
AC ABB03527;
XX
DT 08-JAN-2002 (first entry)
XX
DE Human musculoskeletal system related polypeptide SEQ ID NO 1474.
XX
KW Cytostatic; immunosuppressive; nootropic; neuroprotective; antiviral;
KW antiallergic; hepatotropic; antidiabetic; antiinflammatory; antiulcer;
KW vulnereary; anticonvulsant; antibacterial; antifungal; antiparasitic;
KW cardiac; gene therapy; cancer; immune disorder; cardiovascular disorder;
KW neurological disease; infection; human; secreted protein;
KW musculoskeletal system.
XX
OS Homo sapiens.
XX
PN WO200155367-A1.
XX
PD 02-AUG-2001.
XX
PF 17-JAN-2001; 2001WO-US001338.
XX
PR 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.
PR 22-AUG-2000; 2000US-0226681P.
PR 22-AUG-2000; 2000US-0226682P.
PR 22-AUG-2000; 2000US-0227182P.
PR 23-AUG-2000; 2000US-0227009P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230437P.
PR 06-SEP-2000; 2000US-0230438P.
PR 08-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.

PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0232080P.
PR 08-SEP-2000; 2000US-0232081P.
PR 12-SEP-2000; 2000US-0231968P.
PR 14-SEP-2000; 2000US-0232397P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234223P.
PR 21-SEP-2000; 2000US-0234274P.
PR 25-SEP-2000; 2000US-0234997P.
PR 25-SEP-2000; 2000US-0234998P.
PR 26-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235835P.
PR 27-SEP-2000; 2000US-0235836P.
PR 29-SEP-2000; 2000US-0236327P.
PR 29-SEP-2000; 2000US-0236328P.
PR 29-SEP-2000; 2000US-0236367P.
PR 29-SEP-2000; 2000US-0236368P.
PR 29-SEP-2000; 2000US-0236369P.
PR 02-OCT-2000; 2000US-0236802P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-0239933P.
PR 13-OCT-2000; 2000US-0239937P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241221P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241787P.
PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
PR 20-OCT-2000; 2000US-0241826P.
PR 01-NOV-2000; 2000US-0244617P.
PR 08-NOV-2000; 2000US-0246474P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246478P.
PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246529P.
PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246609P.
PR 08-NOV-2000; 2000US-0246610P.
PR 08-NOV-2000; 2000US-0246611P.
PR 08-NOV-2000; 2000US-0246613P.
PR 17-NOV-2000; 2000US-0249207P.
PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249214P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249218P.
PR 17-NOV-2000; 2000US-0249244P.
PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249246P.
PR 17-NOV-2000; 2000US-0249255P.
PR 17-NOV-2000; 2000US-0249297P.

PR 17-NOV-2000; 2000US-0249299P.
PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251989P.
PR 08-DEC-2000; 2000US-0251990P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0259678P.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX PI Rosen CA, Barash SC, Ruben SM;
XX DR WPI, 2001-451937/48.
XX DR N-PSDB; AAL35109.
XX
XX PT Isolated polypeptide for treating, preventing and/or prognosing
XX PT disorders related to the musculoskeletal system including musculoskeletal
XX PT cancers and also for testing and detection e.g. diagnosis.
XX
XX PS Claim 11; SEQ ID NO 1474; 781bp + Sequence Listing; English.
XX
XX CC The invention relates to novel genes (AAL34669-AAL37666) and proteins
XX CC (AB03087-AB04109) associated with the musculoskeletal system useful for
XX CC preventing, treating or ameliorating medical conditions e.g. by protein
XX CC or gene therapy. The genes are isolated from a range of human tissues
XX CC and (ant)agonists are useful in the diagnosis, treatment and prevention
XX CC of: (a) cancer, e.g. breast and ovarian cancer and other cancers of the
XX CC adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver,
XX CC lung, or urogenital; (b) immune disorders e.g. Addison's disease,
XX CC allergies, autoimmune haemolytic anaemia, autoimmune thyroiditis,
XX CC diabetes mellitus, Crohn's disease, multiple sclerosis, rheumatoid
XX CC arthritis and ulcerative colitis; (c) cardiovascular disorders such as
XX CC myocardial ischaemia; (d) wound healing; (e) neurological diseases e.g.
XX CC cerebral anoxia and epilepsy; and (f) infectious diseases such as viral,
XX CC bacterial, fungal and parasitic infections. Note: The sequence data for
XX CC this patent did not form part of the printed specification, but was
XX CC obtained in electronic format directly from WIPO at
XX CC ftp.wipo.int/pub/published_pct_sequences
XX
XX SQ Sequence 55 AA;
XX
XX Query Match 100.0%; Score 19; DB 4; Length 55;
XX Best Local Similarity 100.0%; Pred. No. 2.3e+03;
XX Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1 AGGV 4
XX 17 AGGV 20
XX DB

RESULT 133
ABU12821
ID ABU12821 standard; protein; 55 AA.
XX
XX AC ABU12821;
XX
XX DT 26-FEB-2003 (first entry)
XX
XX DE Novel human musculoskeletal system antigen #441.
XX
XX KM Musculoskeletal system antigen; cancer; metastasis; re-vascularisation;
KM thrombosis; arteriosclerosis; mineral content; cardiovascular condition;
KM wound; injury; burn; angiogenesis; ulcer; post-operative tissue repair;
KM limb regeneration; neuronal growth; neurodegenerative disorder;

KM Alzheimer's disease; Parkinson's disease; AIDS-related complex;
KM chondrocyte growth; bone regeneration; periodontal regeneration;
KM tissue transport; bone graft; skin aging; keratinocyte growth; hair loss;
KM melanocyte growth; cell proliferation; cell growth; organ transplant;
KM cell differentiation; body height; weight; hair colour; eye colour; skin;
KM percentage of adipose tissue; pigmentation; cosmetic surgery; metabolism;
KM biorhythm; cardiac rhythm; depression; tendency for violence; pain;
KM reproductive capability; hormone level; endocrine level; appetite;
KM libido; memory; stress; storage capability; fat content; lipid content;
KM protein content; carbohydrate content; vitamin content; cofactor content;
KM nutritional component.
XX
XX OS Homo sapiens.
XX
XX PN US2002147140-A1.
XX
XX PD 10-OCT-2002.
XX
XX PF 17-JAN-2001; 2001US-00764877.
XX
XX PR 31-JAN-2000; 2000US-0179065P.
XX PR 04-FEB-2000; 2000US-0180628P.
XX PR 28-JUN-2000; 2000US-0214886P.
XX PR 07-JUL-2000; 2000US-0216647P.
XX PR 07-JUL-2000; 2000US-0216880P.
XX PR 11-JUL-2000; 2000US-0217487P.
XX PR 11-JUL-2000; 2000US-0217486P.
XX PR 14-JUL-2000; 2000US-0218290P.
XX PR 26-JUL-2000; 2000US-0220963P.
XX PR 26-JUL-2000; 2000US-0220964P.
XX PR 14-AUG-2000; 2000US-0224518P.
XX PR 14-AUG-2000; 2000US-0224519P.
XX PR 14-AUG-2000; 2000US-0225267P.
XX PR 14-AUG-2000; 2000US-0225268P.
XX PR 14-AUG-2000; 2000US-0225270P.
XX PR 14-AUG-2000; 2000US-0225447P.
XX PR 14-AUG-2000; 2000US-0225757P.
XX PR 14-AUG-2000; 2000US-0225758P.
XX PR 22-AUG-2000; 2000US-0226868P.
XX PR 30-AUG-2000; 2000US-0228924P.
XX PR 01-SEP-2000; 2000US-0229287P.
XX PR 01-SEP-2000; 2000US-0229343P.
XX PR 01-SEP-2000; 2000US-0229344P.
XX PR 01-SEP-2000; 2000US-0229345P.
XX PR 05-SEP-2000; 2000US-0229350P.
XX PR 05-SEP-2000; 2000US-0229513P.
XX PR 08-SEP-2000; 2000US-0231413P.
XX PR 21-SEP-2000; 2000US-0234223P.
XX PR 21-SEP-2000; 2000US-0234224P.
XX PR 25-SEP-2000; 2000US-0234997P.
XX PR 27-SEP-2000; 2000US-0235834P.
XX PR 29-SEP-2000; 2000US-0236327P.
XX PR 29-SEP-2000; 2000US-0236367P.
XX PR 29-SEP-2000; 2000US-0236368P.
XX PR 29-SEP-2000; 2000US-0236369P.
XX PR 29-SEP-2000; 2000US-0236370P.
XX PR 02-OCT-2000; 2000US-0236802P.
XX PR 02-OCT-2000; 2000US-0237037P.
XX PR 02-OCT-2000; 2000US-0237038P.
XX PR 02-OCT-2000; 2000US-0237039P.
XX PR 02-OCT-2000; 2000US-0237040P.
XX PR 13-OCT-2000; 2000US-0239935P.
XX PR 20-OCT-2000; 2000US-0240960P.
XX PR 20-OCT-2000; 2000US-0241785P.
XX PR 20-OCT-2000; 2000US-0241809P.
XX PR 01-NOV-2000; 2000US-0244617P.
XX PR 17-NOV-2000; 2000US-0249299P.
XX PR 08-DEC-2000; 2000US-0251856P.
XX PR 08-DEC-2000; 2000US-0251868P.
XX PR 08-DEC-2000; 2000US-0251869P.
XX
XX PA (ROSE/) ROSEN C A.
XX PA (RUBE/) RUBEN S M.

PA (BARA/) BARASH S C.
XX
PI Rosen CA, Ruben SM, Barash SC;
XX WPI: 2003-128199/12.
DR N-PSDB; ABX58097.
XX
PT Isolated nucleic acid molecules encoding musculoskeletal system
XX associated polypeptides, useful for detecting disorders, e.g. cancer.
PS Claim 11; SEQ ID NO 1474; 321pp; English.
XX
XX The invention describes an isolated nucleic acid molecule comprising a
CC sequence encoding musculoskeletal system associated polypeptides useful
CC for detecting disorders, e.g., cancer or cancer metastases, in animals or
CC humans. The nucleic acid: stimulates re-vascularisation of ischemic
CC tissues associated with conditions such as thrombosis, arteriosclerosis,
CC and other cardiovascular conditions; treats wounds due to injuries,
CC burns, post-operative tissue repair, and ulcers; stimulates angiogenesis
CC and limb regeneration; stimulates neuronal growth; can treat and prevent
CC neuronal damage occurring in certain disorders or neurodegenerative
CC conditions, such as, Alzheimer's disease, Parkinson's disease, and AIDS-
CC related complex; stimulates chondrocyte growth, thus they can be used to
CC enhance bone and periodontal regeneration and aid in tissue transports or
CC bone grafts; prevents skin aging due to sunburn by stimulating
CC keratinocyte growth; prevents hair loss, since FGF family members
CC activate hair-forming cells and promotes melanocyte growth; stimulates
CC growth and differentiation of hematopoietic cells and bone marrow cells
CC when used in combination with other cytokines; maintains organs before
CC transplantation or for supporting cell culture of primary tissues;
CC induces tissue of mesodermal origin to differentiate in early embryos;
CC increases or decreases the differentiation or proliferation of embryonic
CC stem cells, besides, hematopoietic lineage; modulates mammalian
CC characteristics, such as, body height, weight, hair colour, eye colour,
CC skin, percentage of adipose tissue, pigmentation, size, and shape (e.g.,
CC cosmetic surgery); modulates mammalian metabolism; changes mammal's metal
CC state or physical state by influencing biorhythms, cardiac rhythms,
CC depression, tendency for violence, tolerance for pain, reproductive
CC capabilities, hormonal or endocrine levels, appetite, libido, memory, or
CC stress; increases or decreases storage capabilities, fat content, lipid,
CC protein, carbohydrate, vitamins, minerals, cofactors or other nutritional
CC components. This is the amino acid sequence of a novel human
CC musculoskeletal system antigen. Note: The sequence data for this patent
CC did not form part of the printed specification, but was obtained in
CC electronic format directly from the US patent office at
CC ftp.segdata.uspto.gov/sequence.html?DocID=20020147140
XX
XX
SQ Sequence 55 AA;
Query Match 100.0%; Score 19; DB 6; Length 55;
Best Local Similarity 100.0%; Pred. No. 2.3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AGGV 4
Db 17 AGGV 20
RESULT 134
ADJ28847
ID ADJ28847 standard; protein; 55 AA.
XX
AC ADJ28847;
XX
DT 20-MAY-2004 (first entry)
XX
DE Human musculoskeletal system-associated protein - SEQ ID 1474.
XX
XX musculoskeletal system; cytoskeletal; osteopathic; cancer; osteoporosis;
KM gene therapy; vaccine; human.
XX
OS Homo sapiens.
XX

PN US2004009488-A1.
XX
PD 15-JAN-2004.
XX
PF 13-SEP-2002; 2002US-00242515.
XX
XX 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.
PR 22-AUG-2000; 2000US-0226681P.
PR 22-AUG-2000; 2000US-0226868P.
PR 22-AUG-2000; 2000US-0227182P.
PR 23-AUG-2000; 2000US-0227009P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230437P.
PR 06-SEP-2000; 2000US-0230438P.
PR 08-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0232080P.
PR 08-SEP-2000; 2000US-0232081P.
PR 12-SEP-2000; 2000US-0231968P.
PR 14-SEP-2000; 2000US-0232397P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234223P.
PR 21-SEP-2000; 2000US-0234274P.
PR 25-SEP-2000; 2000US-0234997P.
PR 25-SEP-2000; 2000US-0234998P.
PR 26-SEP-2000; 2000US-0235484P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235836P.

PR	29-SEP-2000	2000US-0236327
PR	29-SEP-2000	2000US-0236367
PR	29-SEP-2000	2000US-0236368P
PR	29-SEP-2000	2000US-0236369P
PR	29-SEP-2000	2000US-0236370P
PR	02-OCT-2000	2000US-0236802P
PR	02-OCT-2000	2000US-0237037P
PR	02-OCT-2000	2000US-0237038P
PR	02-OCT-2000	2000US-0237039P
PR	02-OCT-2000	2000US-0237040P
PR	13-OCT-2000	2000US-0239935P
PR	13-OCT-2000	2000US-0239937P
PR	20-OCT-2000	2000US-0241187P
PR	20-OCT-2000	2000US-0241608P
PR	20-OCT-2000	2000US-0241809P
PR	20-OCT-2000	2000US-0241826P
PR	01-NOV-2000	2000US-0244617P
PR	08-NOV-2000	2000US-0244617P
PR	08-NOV-2000	2000US-0244647P
PR	08-NOV-2000	2000US-0245533P
PR	08-NOV-2000	2000US-0245534P
PR	08-NOV-2000	2000US-0245535P
PR	08-NOV-2000	2000US-0245536P
PR	08-NOV-2000	2000US-0245537P
PR	08-NOV-2000	2000US-0246578P
PR	08-NOV-2000	2000US-0246582P
PR	08-NOV-2000	2000US-0246583P
PR	08-NOV-2000	2000US-0246589P
PR	08-NOV-2000	2000US-0246609P
PR	08-NOV-2000	2000US-0246610P
PR	08-NOV-2000	2000US-0246611P
PR	08-NOV-2000	2000US-0246613P
PR	17-NOV-2000	2000US-0249207P
PR	17-NOV-2000	2000US-0249208P
PR	17-NOV-2000	2000US-0249208P
PR	17-NOV-2000	2000US-0249209P
PR	17-NOV-2000	2000US-0249210P
PR	17-NOV-2000	2000US-0249211P
PR	17-NOV-2000	2000US-0249212P
PR	17-NOV-2000	2000US-0249213P
PR	17-NOV-2000	2000US-0249214P
PR	17-NOV-2000	2000US-0249215P
PR	17-NOV-2000	2000US-0249216P
PR	17-NOV-2000	2000US-0249217P
PR	17-NOV-2000	2000US-0249218P
PR	17-NOV-2000	2000US-0249244P
PR	17-NOV-2000	2000US-0249245P
PR	17-NOV-2000	2000US-0249246P
PR	17-NOV-2000	2000US-0249265P
PR	17-NOV-2000	2000US-0249267P
PR	17-NOV-2000	2000US-0249297P
PR	17-NOV-2000	2000US-0249309P
PR	01-DEC-2000	2000US-0250316P
PR	01-DEC-2000	2000US-0250319P
PR	05-DEC-2000	2000US-0251030P
PR	05-DEC-2000	2000US-0251030P
PR	05-DEC-2000	2000US-0251198P
PR	05-DEC-2000	2000US-0251671P
PR	06-DEC-2000	2000US-0251479P
PR	06-DEC-2000	2000US-0251856P
PR	08-DEC-2000	2000US-0251868P
PR	08-DEC-2000	2000US-0251869P
PR	08-DEC-2000	2000US-0251969P
PR	08-DEC-2000	2000US-0251980P
PR	11-DEC-2000	2000US-0254037P
PR	05-JAN-2001	2001US-0256978P
PR	17-JAN-2001	2001US-00764677
XX		
XX		
XX	(HUMA-) HUMAN GENOME SCI INC.	

PI	Rosen CA, Ruben SM, Barash SC;
XX	WPI; 2004-090458/09.
DR	N-PSDB; ADJ27824.
XX	
XX	New nucleic acid molecule, useful for preparing a medicament for
PT	preventing, treating or ameliorating a medical condition e.g., cancer of
PT	musculoskeletal tissues or osteoporosis.
XX	
PS	Claim 11; SEQ ID NO 1474; 289PP; English.
XX	
CC	The invention relates to a novel isolated musculoskeletal system-
CC	associated nucleic acid molecule. The nucleic acid of the invention
CC	demonstrates cytostatic and osteopathic activities and may be useful for
CC	preparing a medicament for preventing, treating or ameliorating a medical
CC	condition such as cancer of the musculoskeletal tissues or osteoporosis,
CC	possibly via gene therapy or vaccine production. The current sequence is
CC	that of the human musculoskeletal system-associated polypeptide of the
CC	invention. The current sequence is not shown within the specification per
CC	se but is available on the USPTO web-site
CC	http://seqdata.uspto.gov/sequence.html?DocID=20040009488.
XX	
SQ	Sequence 55 AA;
	Query Match 100.0%; Score 19; DB 8; Length 55;
	Best Local Similarity 100.0%; Pred. No. 2.3e+03; Mismatches 0; Gaps 0
	Matches 4; Conservative 0; Indels 0; Gaps 0
OY	1 AAGV 4
	17 AAGV 20
DB	
	RESULT 135
	AA#41885
ID	AA#41885 standard; peptide; 56 AA.
XX	
AC	AA#41885;
XX	
DT	25-MAR-2003 (revised)
DT	22-APR-1994 (first entry)
XX	
XX	Granulin E.
DE	
XX	Granulin; keratinocytes; wound healing; inhibition; peptide;
KW	granulocyte; leucocytes.
XX	
OS	Homo sapiens.
XX	
PN	WO9315195-A1.
XX	
PD	05-AUG-1993.
XX	
PF	28-FEB-1992; 92WO-CA000089.
XX	
PR	03-FEB-1992; 92US-00829233.
XX	
PA	(SOLO/) SOLOMON S.
XX	
PI	Solomon S;
XX	
DR	WPI; 1993-320328/40.
XX	
PT	New cysteine rich granulin peptide(s) from leucocyte(s) - are keratinocyte
PT	inhibitors useful topically for wound healing.
XX	
PS	Claim 8; Page 33; 53PP; English.
XX	
CC	The granulin inhibits keratinocytes and is useful in formulations for
CC	promoting the healing of wounds. This peptide was designated granulin E.
CC	(Updated on 25-MAR-2003 to correct PN field.)
XX	
SQ	Sequence 56 AA;

Query Match 100.0%; Score 19; DB 2; Length 56;
Best Local Similarity 100.0%; Pred. No. 2.3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
Db 30 AOGV 33

RESULT 136
AAB50390
ID AAB50390 standard; protein; 56 AA.
XX
AC AAB50390;
XX
DT 12-MAR-2001 (first entry)
XX
DE Human uncoupling protein #13.
XX
KW Human; uncoupling protein; immunosuppressive; antiarthritic;
KW antirheumatic; antiproliferative; cardiac; vasotropic;
KW cerebroprotective; neuroprotective; antibacterial; optalmological;
KW gastrointestinal; nephrotropic; gynaecological; vulnary; thrombolytic;
KW gene therapy; cancer; wound; infectious disease; thrombosis; arthritis;
KW infertility.
XX
OS Homo sapiens.
XX
PN WO200061614-A2.
XX
PD 19-OCT-2000.
XX
PE 06-APR-2000; 2000WO-US009534.
XX
PR 09-APR-1999; 99US-0128701P.
PR 08-JUL-1999; 99US-0142821P.
PR 18-AUG-1999; 99US-0149448P.
PR 12-NOV-1999; 99US-0164751P.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Ruben SM, Ni J, Komatsoulis G, Rosen CA, Soppet DR;
XX
DR WPI; 2000-656322/63.
DR N-PSDB; AAC90464.
XX
PT Uncoupling proteins and nucleic acid sequences encoding them, useful for
PT detecting, preventing and creating proliferative, neurological, immune
PT system, cardiovascular and gastrointestinal disorders.
XX
PS Claim 11; Page 330; 343pp; English.
XX
CC The present sequence is a human uncoupling protein. The nucleotide
CC sequences encoding the uncoupling proteins may be used for the detection
CC of various disorders such as cancer, for chromosome identification, as
CC chromosome markers and for numerous other diagnostic or research
CC purposes. The uncoupling protein encoded by the nucleotide sequences may
CC be used to treat disorders such as neural, immune, muscular, renal and
CC reproductive, gastrointestinal, pulmonary, cardiovascular, renal and
CC proliferative disorders, wounds, infectious diseases, thrombosis,
CC arthritis, and infertility
XX
SQ Sequence 56 AA;

Query Match 100.0%; Score 19; DB 3; Length 56;
Best Local Similarity 100.0%; Pred. No. 2.3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
Db 39 AOGV 42

RESULT 137
ABB40247
ID ABB40247 standard; peptide; 56 AA.
XX
AC ABB40247;
XX
DT 04-FEB-2002 (first entry)
XX
DE Peptide #7753 encoded by human foetal liver single exon probe.
XX
KW Human; foetal liver; gene expression; single exon nucleic acid probe.
XX
OS Homo sapiens.
XX
PN WO200157277-A2.
XX
PD 09-AUG-2001.
XX
PE 30-JAN-2001; 2001WO-US000669.
XX
PR 04-FEB-2000; 2000US-0180312P.
PR 26-MAY-2000; 2000US-0207456P.
PR 30-JUN-2000; 2000US-00608408.
PR 03-AUG-2000; 2000US-00632366.
PR 21-SEP-2000; 2000US-0234687P.
PR 27-SEP-2000; 2000US-0236359P.
PR 04-OCT-2000; 2000GB-00024263.
XX
PA (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX
DR WPI; 2001-483447/52.
XX
PT Human genome-derived single exon nucleic acid probes useful for analyzing
PT gene expression in human fetal liver.
XX
PS Claim 27; SEQ ID NO 32882; 639pp + Sequence Listing; English.
XX
CC The invention relates to a single exon nucleic acid probe for measuring
CC human gene expression in a sample derived from human foetal liver. The
CC single exon nucleic acid probes may be used for predicting, measuring and
CC displaying gene expression in samples derived from human fetal liver. The
CC present sequence is a peptide encoded by a single exon nucleic acid probe
CC of the invention. Note: The sequence data for this patent did not form
CC part of the printed specification, but was obtained in electronic format
CC directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 56 AA;

Query Match 100.0%; Score 19; DB 4; Length 56;
Best Local Similarity 100.0%; Pred. No. 2.3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
Db 6 AOGV 9

RESULT 138
AAM33926
ID AAM33926 standard; protein; 56 AA.
XX
AC AAM33926;
XX
DT 17-OCT-2001 (first entry)
XX
DE Peptide #7963 encoded by probe for measuring placental gene expression.
XX
KW Probe; microarray; human; placenta; antenatal diagnosis;
KW genetic disorder.

```
OS Homo sapiens.
XX
XX WO200157272-A2.
XX
XX 09-AUG-2001.
XX
XX 30-JAN-2001; 2001WO-US000663.
XX
XX 04-FEB-2000; 2000US-0180312P.
XX 26-MAY-2000; 2000US-0207456P.
XX 30-JUN-2000; 2000US-00608408.
XX 03-AUG-2000; 2000US-00632366.
XX 21-SEP-2000; 2000US-0234687P.
XX 27-SEP-2000; 2000US-0236359P.
XX 04-OCT-2000; 2000GB-00024263.
XX
XX (MOLE-) MOLECULAR DYNAMICS INC.
XX
XX Penn SG, Hanzel DK, Chen W, Rank DR;
XX
XX WPI; 2001-488897/53.
XX
XX Human genome-derived single exon nucleic acid probes useful for analyzing
XX gene expression in human placenta.
XX
XX Claim 27; SEQ ID NO 34195; 654pp; English.
XX
XX The present invention relates to single exon nucleic acid probes (SENP:
XX see AAI31315-AA157546). The present sequence is a peptide encoded by one
XX such probe. The probes are useful for producing a microarray for
XX predicting, measuring and displaying gene expression in samples derived
XX from human placenta. The probes are useful for antenatal diagnosis of
XX human genetic disorders
XX
XX Sequence 56 AA:
XX
XX Query Match 100.0%; Score 19; DB 4; Length 56;
XX Best Local Similarity 100.0%; Pred. No. 2.3e+03;
XX Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1 AOCV 4
XX ||||
XX 6 AOCV 9
XX
XX Db
XX
XX RESULT 139
XX AAM73737
XX ID AAM73737 standard; protein; 56 AA.
XX
XX AC AAM73737;
XX
XX DT 06-NOV-2001 (first entry)
XX
XX DE Human bone marrow expressed probe encoded protein SEQ ID NO: 34043.
XX
XX KW Human; bone marrow expressed exon; gene expression analysis; probe;
XX microarray; cancer; leukaemia; lymphoma; myeloma.
XX
XX OS Homo sapiens.
XX
XX PN WO200157276-A2.
XX
XX PD 09-AUG-2001.
XX
XX 30-JAN-2001; 2001WO-US000668.
XX
XX 04-FEB-2000; 2000US-0180312P.
XX 26-MAY-2000; 2000US-0207456P.
XX 30-JUN-2000; 2000US-00608408.
XX 03-AUG-2000; 2000US-00632366.
XX 21-SEP-2000; 2000US-0234687P.
XX 27-SEP-2000; 2000US-0236359P.
XX 04-OCT-2000; 2000GB-00024263.
XX
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XX
XX (MOLE-) MOLECULAR DYNAMICS INC.
XX
XX Penn SG, Hanzel DK, Chen W, Rank DR;
XX
XX WPI; 2001-488900/53.
XX
XX Human genome-derived single exon nucleic acid probes useful for analyzing
XX gene expression in human bone marrow.
XX
XX Example 4; SEQ ID NO 34043; 658pp + Sequence Listing; English.
XX
XX The present invention provides a number of single exon nucleic acid
XX probes which are derived from genomic sequences expressed in the human
XX bone marrow. They can be used to measure gene expression in bone marrow
XX samples, which may enable the improved diagnosis and treatment of cancers
XX such as lymphoma, leukaemia and myeloma. The present sequence is a
XX protein encoded by one of the probes of the invention
XX
XX Sequence 56 AA:
XX
XX Query Match 100.0%; Score 19; DB 4; Length 56;
XX Best Local Similarity 100.0%; Pred. No. 2.3e+03;
XX Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1 AOCV 4
XX ||||
XX 6 AOCV 9
XX
XX Db
XX
XX RESULT 140
XX AAM61034
XX ID AAM61034 standard; protein; 56 AA.
XX
XX AC AAM61034;
XX
XX DT 05-NOV-2001 (first entry)
XX
XX DE Human brain expressed single exon probe encoded protein SEQ ID NO: 33139.
XX
XX KW Human; brain expressed exon; gene expression analysis; probe; microarray;
XX Alzheimer's disease; multiple sclerosis; schizophrenia; epilepsy; cancer.
XX
XX OS Homo sapiens.
XX
XX PN WO200157275-A2.
XX
XX PD 09-AUG-2001.
XX
XX 30-JAN-2001; 2001WO-US000667.
XX
XX 04-FEB-2000; 2000US-0180312P.
XX 26-MAY-2000; 2000US-0207456P.
XX 30-JUN-2000; 2000US-00608408.
XX 03-AUG-2000; 2000US-00632366.
XX 21-SEP-2000; 2000US-0234687P.
XX 27-SEP-2000; 2000US-0236359P.
XX 04-OCT-2000; 2000GB-00024263.
XX
XX (MOLE-) MOLECULAR DYNAMICS INC.
XX
XX Penn SG, Hanzel DK, Chen W, Rank DR;
XX
XX WPI; 2001-483446/52.
XX
XX Single exon nucleic acid probes for analyzing gene expression in human
XX brains.
XX
XX Example 4; SEQ ID NO 33139; 650pp + Sequence Listing; English.
XX
XX The present invention provides a number of single exon nucleic acid
XX probes which are derived from genomic sequences expressed in the human
XX brain. They can be used to measure gene expression in brain cell samples,
XX
```

CC which may enable the diagnosis and improved treatment of nervous system
CC diseases such as Alzheimer's disease, multiple sclerosis, schizophrenia,
CC epilepsy and cancers. The present sequence is a protein encoded by one of
CC the probes of the invention

XX Sequence 56 AA;

Query Match 100.0%; Score 19; DB 4; Length 56;
Best Local Similarity 100.0%; Pred. No. 2.3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 A QGV 4
|||
6 A QGV 9

Db

RESULT 141
ABG55482
ID ABG55482 standard; peptide; 56 AA.

XX ABG55482;

XX 25-FEB-2003 (first entry)

DE Human liver peptide, SEQ ID NO 34130.

XX Human, liver; cirrhosis; hyperlipoproteinaemia; hyperlipidaemia;
KW hypercholesterolaemia; coronary heart disease.

XX Homo sapiens.

XX WO200157273-A2.

XX 09-AUG-2001.

PF 30-JAN-2001; 2001WO-US000664.

XX 04-FEB-2000; 2000US-0180312P.

PR 26-MAY-2000; 2000US-0207456P.

PR 30-JUN-2000; 2000US-00608408.

PR 03-AUG-2000; 2000US-00632366.

PR 21-SEP-2000; 2000US-0234687P.

PR 27-SEP-2000; 2000US-0236359P.

PR 04-OCT-2000; 2000GB-00024263.

XX (MOLE-) MOLECULAR DYNAMICS INC.

PI Penn SG, Hanzel DK, Chen W, Rank DR;

DR WPI; 2001-488898/53.

XX Claim 27; SEQ ID NO 34130; 658bp; English.

XX The invention relates to a single exon nucleic acid probe (SENP) (1) for
CC measuring human gene expression in a sample derived from human adult
CC liver, comprising one of 13109 defined nucleotide sequences given in the
CC specification (or complements/ fragments). The probe hybridises at high
CC stringency to a nucleic acid molecule expressed in the human adult liver.
CC (1) may be used for predicting, measuring and displaying gene expression
CC in samples derived from human adult liver. The genes identified may be
CC involved in genetic liver diseases such as cirrhosis,

CC hyperlipoproteinaemia, hyperlipidaemia and hypercholesterolaemia which is
CC associated with coronary heart disease. ABG47348-ABG59930 represent human
CC liver single exon encoded peptides of the invention. Note: The sequence
CC information for this patent does not appear in the printed specification
CC but was obtained in electronic format directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences

XX Sequence 56 AA;

Query Match 100.0%; Score 19; DB 4; Length 56;
Best Local Similarity 100.0%; Pred. No. 2.3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 A QGV 4
|||
6 A QGV 9

Db

RESULT 142
ABG43619
ID ABG43619 standard; peptide; 56 AA.

XX ABG43619;

XX 19-AUG-2002 (first entry)

DE Human peptide encoded by genome-derived single exon probe SEQ ID 33284.

XX Human, single exon probe; asthma; lung cancer; COPD; ILD;

XX chronic obstructive pulmonary disease; interstitial lung disease;

XX familial idiopathic pulmonary fibrosis; neurofibromatosis;

XX tuberculous sclerosis; Gaucher's disease; Niemann-Pick disease;

XX Hermansky-Pudlak syndrome; sarcoidosis; pulmonary haemosiderosis;

XX pulmonary alveolar proteinosis; fibrocystic pulmonary dysplasia;

XX primary ciliary dyskinesia; pulmonary hypertension;

XX hyaline membrane disease.

XX Homo sapiens.

XX WO200186003-A2.

XX 15-NOV-2001.

PF 30-JAN-2001; 2001WO-US000665.

XX 04-FEB-2000; 2000US-0180312P.

PR 26-MAY-2000; 2000US-0207456P.

PR 30-JUN-2000; 2000US-00608408.

PR 03-AUG-2000; 2000US-00632366.

PR 21-SEP-2000; 2000US-0234687P.

PR 27-SEP-2000; 2000US-0236359P.

PR 04-OCT-2000; 2000GB-00024263.

XX (MOLE-) MOLECULAR DYNAMICS INC.

PI Penn SG, Hanzel DK, Chen W, Rank DR;

DR WPI; 2002-114183/15.

XX Claim 27; SEQ ID NO 33284; 634bp; English.

XX The invention relates to a spatially-addressable set of single exon
CC nucleic acid probes for measuring gene expression in a sample derived
CC from human lung comprising single exon nucleic acid probes having one of
CC 12614 nucleic acid sequences mentioned in the specification, or their
CC complements or the 12387 open reading frames derived from the 12614
CC probes. Also included are a microarray comprising the novel set of probes
CC; the novel set of probes which hybridise at high stringency to a nucleic
CC acid expressed in the human lung; measuring gene expression in a sample
CC derived from human lung, comprising (a) contacting the array with a
CC collection of detectably labeled nucleic acids derived from human lung
CC mRNA, and (b) measuring the label detectably bound to each probe of the
CC array; identifying exons in a eukaryotic genome, comprising (a)
CC algorithmically predicting at least one exon from genomic sequences of
CC the eukaryote; and (b) detecting specific hybridisation of detectably
CC labeled nucleic acids from eukaryote lung mRNA, to a single exon probe,
CC having a fragment identical to the predicted exon, the probe is included
CC in the above mentioned microarray; assigning exons to a single gene,

CC comprising (a) identifying exons from genomic sequence by the method
 CC above and (b) measuring the expression of each of the exons in several
 CC tissues and/or cell types using hybridisation to a single exon
 CC microarrays having a probe with the exon, where a common pattern of
 CC expression of the exons in the tissues and/or cell types indicates that
 CC the exons should be assigned to a single gene; a peptide comprising one
 CC of 12011 sequences, mentioned in the specification, or encoded by the
 CC probe/open reading frames (ORF). The probes are used for gene expression
 CC analysis, and for identifying exons in a gene, particularly using human
 CC lung derived mRNA and for the study of lung diseases such as asthma, lung
 CC cancer, chronic obstructive pulmonary disease (COPD), interstitial lung
 CC disease (ILD), familial idiopathic pulmonary fibrosis, neurofibromatosis,
 CC tuberous sclerosis, Gaucher's disease, Niemann-Pick disease, Hermansky-
 CC Pudlak syndrome, sarcoidosis, pulmonary haemorrhoids, pulmonary
 CC histiocytosis, lymphangioleiomyomatosis, pulmonary alveolar proteinosis,
 CC Karsenger syndrome, fibrocystic pulmonary dysplasia, primary ciliary
 CC dyskinesias, pulmonary hypertension and hyaline membrane disease. The
 CC present sequence is a peptide/protein encoded by a single exon probe of
 CC the invention. Note: The sequence data for this patent did not form part
 CC of the printed specification, but was obtained in electronic format
 CC directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
 CC
 XX
 SQ Sequence 56 AA:
 Query Match 100.0%; Score 19; DB 5; Length 56;
 Best Local Similarity 100.0%; Pred. No. 2.3e+03; Indels 0; Gaps 0;
 Matches 4; Conservative 0; Mismatches 0;
 QY 1 AOCV 4
 ||||
 Db 6 AOCV 9
 RESULT 143
 ID ABP42752
 AC ABP42752 standard; protein; 56 AA.
 XX
 DT 22-AUG-2002 (first entry)
 XX
 DE Human ovarian antigen HOVEN86, SEQ ID NO:3884.
 XX
 KW Human; ovarian antigen; ovary; ovarian; breast; cancer; tumour;
 KW Human; ovarian cancer; breast cancer; tumour; reproductive system disorder;
 KW Infertility; pregnancy disorder; anovulation; polycystic ovary syndrome;
 KW PCOS; ovarian cyst; dysmenorrhoea; endocrine disorder; infection;
 KW inflammatory condition; immune disorder; blood disorder;
 KW cardiovascular disorder; respiratory disorder; neurological disorder;
 KW gastrointestinal disorder; urinary system disorder; drug screening;
 KW gene therapy; chromosome mapping; forensic analysis;
 KW antibody preparation; cytostatic; immunomodulatory; neuroprotective;
 KW antiinflammatory; gynaecological; reproductive.
 XX
 OS Homo sapiens.
 XX
 PN WO200200677-A1.
 XX
 PD 03-JAN-2002.
 XX
 PF 07-JUN-2001; 2001WO-US018569.
 XX
 PR 07-JUN-2000; 2000US-0209467P.
 XX
 PA (HUMA-) HUMAN GENOME SCI INC.
 XX
 PI Birse CE, Rosen CA;
 XX
 DR WPI, 2002-147878/19.
 DR N-PSDB; ABO55829.
 XX
 PT Isolated nucleic acid molecules encoding novel ovarian polypeptides,
 PT useful in the prevention, treatment and diagnosis of cancer (e.g. ovarian

PT cancer), immune disorders, cardiovascular disorders and neurological
 PT diseases.
 XX
 PS Claim 11; SEQ ID NO 3884; 2922pp; English.
 XX
 CC The invention relates to 2175 novel human ovarian antigens (ABP41054-
 CC ABP43228) and to cDNAs encoding them (ABO54131-ABO56305), and also
 CC encompasses polypeptides 90% identical and polynucleotides 95% identical
 CC to the sequences of the invention. The invention additionally relates to
 CC recombinant vectors and host cells comprising human ovarian antigen
 CC polynucleotides, antibodies against human ovarian antigens, and the use
 CC of ovarian antigen polynucleotides and polypeptides in diagnosing,
 CC treating, prognosing or preventing various ovary and/or breast-related
 CC disorders. Such conditions include ovarian cancer and breast cancer, and
 CC metastatic tumours of ovarian or breast origin, reproductive system
 CC disorders (e.g., infertility, disorders of pregnancy, anovulation,
 CC polycystic ovary syndrome, ovarian cysts, and dysmenorrhoea), endocrine
 CC disorders, infections (e.g., chlamydia, HIV, toxoplasmosis, and toxic
 CC shock syndrome), inflammatory conditions (e.g., mastitis, oophoritis and
 CC vaginitis), immune disorders (e.g., congenital and acquired
 CC immunodeficiencies, autoimmune oophoritis, systemic lupus erythematosus),
 CC blood-related disorders (e.g., anaemia), cardiovascular disorders,
 CC respiratory disorders, neurological disorders, gastrointestinal disorders
 CC and urinary system disorders. Ovarian antigen polypeptides and
 CC polynucleotides may also be used in screening for compounds which
 CC modulate ovarian antigen expression or activity. The polynucleotides may
 CC further be used for gene therapy, chromosome mapping, in the
 CC identification of individuals and in forensic analysis, and the
 CC polypeptides may be used as food additives or to prepare antibodies
 CC useful in disease diagnosis, drug targeting and phenotyping. The present
 CC sequence represents a human ovarian antigen of the invention. Note: The
 CC sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences
 CC
 XX
 SQ Sequence 56 AA:
 Query Match 100.0%; Score 19; DB 5; Length 56;
 Best Local Similarity 100.0%; Pred. No. 2.3e+03; Indels 0; Gaps 0;
 Matches 4; Conservative 0; Mismatches 0;
 QY 1 AOCV 4
 ||||
 Db 28 AOCV 31
 RESULT 144
 ID ADL27363
 AC ADL27363 standard; peptide; 56 AA.
 XX
 DT 03-JUN-2004 (first entry)
 XX
 DE Amino acid sequence of the DEC-205 transmembrane cytoplasmic domain.
 XX
 KW allergen; endoplasmic reticulum; LAMP-1;
 KW Lysozyme-Associated Membrane Protein 1; tissue plasminogen activator;
 KW LAMP-11; Lysozyme-Associated Membrane Protein 2; DEC-205; P-selectin;
 KW tyrosinase; GLUT4; glucose transporter; endocublin; Nef protein; Lysozyme;
 KW B10 t5; B10 t1; Der p1; Der p2; Der p3; Der f1; Der f2; Der f3;
 KW T helper cell epitope; allergic reaction; asthma; rhinitis.
 XX
 OS Homo sapiens.
 XX
 PN WO2004019978-A1.
 XX
 PD 11-MAR-2004.
 XX
 PF 29-AUG-2003; 2003WO-SG000205.
 XX
 PR 29-AUG-2002; 2002US-0406659P.
 XX

PA (UYSI-) UNIV SINGAPORE NAT.
 XX
 XX Chua KY, Liew LN;
 PI
 DR WPI; 2004-239125/22.
 XX
 PT New recombinant nucleic acid comprising a gene encoding a first signal
 PT peptide operably linked to a gene encoding an allergen, useful for the
 PT manufacture of a medicament for treating or preventing an allergic
 PT reaction, e.g., asthma.
 XX
 XX
 PS Disclosure; Page 67; 79pp; English.
 XX
 CC The specification describes a recombinant nucleic acid comprising a gene
 CC encoding a first signal peptide operably linked to a gene encoding an
 CC allergen, where the first signal peptide mediates the translocation of
 CC the allergen into the endoplasmic reticulum. The first signal peptide is
 CC the N-terminal signal peptide of LAMP-1 (Lysosome-Associated Membrane
 CC Protein 1), human tissue plasminogen activator, LAMP-II (Lysosome-
 CC Associated Membrane Protein 2), DEC-205, P-selectin, tyrosinase, GLUT4
 CC (glucose transporter), endotubulin or Nef protein or its equivalent. The
 CC nucleic acid further comprises an operably linked gene encoding a second
 CC signal peptide where the second signal peptide targets the allergen to an
 CC endosome or lysosome. The second signal peptide is the C-terminal
 CC lysosome or endosome targeting sequence of LAMP-1, human tissue
 CC plasminogen activator, LAMP-II, DEC-205, P-selectin, tyrosinase, GLUT4,
 CC endotubulin or Nef protein or its equivalent. The nucleic acid encodes the
 CC allergen B10 t5, B10 i1, Der p1 or Der p2, Der p3, Der f1, Der f2, Der
 CC f3, a T helper cell epitope or its antigenic fragment containing one or
 CC more T helper cell epitope or its functional equivalent. The recombinant
 CC nucleic acid is useful for the manufacture of a medicament for treating
 CC or preventing an allergic reaction, e.g. asthma or rhinitis. The present
 CC sequence represents a peptide, which is used to construct nucleic acids
 CC of the invention.
 XX
 XX Sequence 56 AA;
 SO
 Query Match 100.0%; Score 19; DB 8; Length 56;
 Best Local Similarity 100.0%; Pred. No. 2.3e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 AOGV 4
 DB 41 AOGV 44
 RESULT 145
 ID ABP07528 standard; protein; 58 AA.
 AC
 AC ABP07528;
 XX
 XX 24-JUN-2002 (first entry)
 DT
 XX Human ORFX protein sequence SEQ ID NO:15038.
 DE
 XX Human; open reading frame; ORFX; gene therapy; cancer; cirrhosis;
 XX hyperproliferative disorder; psoriasis; benign tumour; haemorrhage;
 KW degenerative disorder; osteoarthritis; neurodegenerative disorder;
 KW cardiovascular disease; diabetes mellitus; systemic lupus erythematosus;
 KW hypertension; hypothyroidism; cholesterol ester storage disease;
 KW immune deficiency; immune disorder; infectious disease;
 KW autoimmune disorder; rheumatoid arthritis; autoimmune thyroiditis;
 KW myasthenia gravis.
 XX
 XX Homo sapiens.
 OS
 XX
 XX MO200192523-A2.
 PN
 XX 06-DEC-2001.
 PD
 XX 29-MAY-2001; 2001WO-US010836.
 PF
 XX

PR 30-MAY-2000; 2000US-0206132P.
 PR 29-AUG-2000; 2000US-0228716P.
 XX
 XX (CURA-) CURAGEN CORP.
 PA
 XX
 XX Shinkets RA, Leach MD;
 PI
 XX WPI; 2002-106308/14.
 DR
 DR N-PSDB; ABN23280.
 XX
 XX Novel human polypeptides and polynucleotides useful for diagnosing,
 PT preventing and treating cardiovascular disease, neurodegenerative,
 PT hyperproliferative disorders and autoimmune disorders.
 XX
 XX
 PS Disclosure; SEQ ID NO 15038; 1037pp; English.
 XX
 CC The present invention describes substantially purified human proteins
 CC (referred to as open reading frame, ORFX, where X is 1-11491 (see Table 1
 CC in the specification). ABN15762 to ABN27252 encode the human ORFX
 CC proteins given in ABP00010 to ABP11500. ORFX proteins are useful for
 CC treating or preventing a pathology associated with an ORFX-associated
 CC disorder in humans, and in the manufacture of a medicament for treating a
 CC syndrome associated with ORFX-associated disorder. ORFX polynucleotide
 CC sequences can be used in gene therapy. ORFX sequences can be used in the
 CC treatment of cancer, hyperproliferative disorders, cirrhosis of liver,
 CC psoriasis, benign tumours, keloid, degenerative disorders, haemorrhage,
 CC osteoarthritis, neurodegenerative disorders, disorders related to organ
 CC transplantation, cardiovascular diseases, diabetes mellitus, systemic
 CC lupus erythematosus, hypertension, hypothyroidism, cholesterol ester
 CC storage disease, various immune deficiencies and disorders, infectious
 CC diseases, autoimmune disorders such as multiple sclerosis, rheumatoid
 CC arthritis, autoimmune thyroiditis, myasthenia gravis, graft-versus-host
 CC disease and autoimmune inflammatory eye disease. ORFX proteins are also
 CC useful for treating burns, incisions, ulcers, for treating osteoporosis,
 CC bone degenerative disorders, or periodontal disease, and for gut
 CC protection or regeneration and treatment of lung or liver fibrosis,
 CC reperfusion injury in various tissues and conditions resulting from
 CC systemic cytokine damage. N.B. The sequence data for this patent did not
 CC form part of the printed specification, but was obtained in electronic
 CC format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
 XX
 XX Sequence 58 AA;
 SO
 Query Match 100.0%; Score 19; DB 5; Length 58;
 Best Local Similarity 100.0%; Pred. No. 2.4e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 AOGV 4
 DB 35 AOGV 38
 RESULT 146
 ID AB059983 standard; protein; 58 AA.
 AC
 AC AB059983;
 XX
 XX 29-JUN-2004 (first entry)
 DT
 XX Human genome derived single exon protein #6217.
 DE
 XX Human; gene expression; single exon probe; microarray;
 KW alternative splicing event; genomic alteration.
 KW
 XX
 XX Homo sapiens.
 OS
 XX
 XX US2003194704-A1.
 PN
 XX 16-OCT-2003.
 PD
 XX 03-APR-2002; 2002US-00029386.
 PF
 XX

PR 03-APR-2002; 2002US-00029386.
 XX (PENN/) PENN S G.
 PA (RANK/) RANK D R.
 PA (HANZ/) HANZEL D K.
 XX Penn SG, Rank DR, Hanzel DK;
 XX WPI; 2004-119264/12.
 DR
 XX
 XX
 PT New human genome-derived single exon nucleic acid probes useful for human
 PT gene expression analysis, for identifying or characterizing alternative
 PT splicing events, for assessing genomic alterations or as tools for
 PT surveying tissues.
 XX
 XX Claim 45; SEQ ID NO 35617; 80pp; English.
 PS
 CC The invention relates to a nucleic acid probe for measuring human gene
 CC expression, comprising any of the 27,400 fully defined nucleotide
 CC sequences in the specification, or their complements or fragments, and
 CC encoding at least 8 amino acids of any of the 6888 amino acid sequences
 CC fully defined in the specification. The probe is a single exon probe that
 CC hybridizes under high stringency conditions to a nucleic acid molecule
 CC expressed in human cells or tissues. Also included are a spatially-
 CC addressable set of single exon nucleic acid probes for measuring human
 CC gene expression (comprising a plurality of single exon nucleic acid
 CC probes cited above, where each of the plurality of probes is separately
 CC and addressably isolatable or amplifiable from the plurality), a single
 CC exon microarray for measuring human gene expression, a method of
 CC measuring human gene expression, a vector comprising the single exon
 CC probe cited above, an ORF-encoded peptide comprising at least 8
 CC contiguous amino acids of any of the above-mentioned amino acid
 CC sequences (optionally with conservative amino acid substitutions), an
 CC isolated antibody that binds specifically to a peptide cited above,
 CC methods of selling and/or licensing single exon probes or microarrays to
 CC a customer desiring to measure gene expression, a method of providing
 CC human gene expression data by subsequence, and a computer-readable
 CC storage medium which contains a database having a plurality of records
 CC (each record including data on the expression of a single exon probe
 CC cited above. The probe, methods and apparatus are useful in gene
 CC expression analysis. The probes may be used as tools for surveying
 CC tissues to detect the presence of expressed messages that contain their
 CC specific exon, or in constructing genome-derived single exon microarrays.
 CC In addition, the probes are used in identifying and characterizing
 CC alternative splicing events, in detecting and characterizing gross
 CC alterations in the genomic locus that includes their exon, in assessing
 CC smaller genomic alterations, in priming the synthesis of nucleic acids,
 CC or in expressing the ORF-encoded peptide. The present sequence is a human
 CC single exon probe protein of the invention. Note: The sequence data for
 CC this patent did not form part of the printed specification, but was
 CC obtained in electronic format directly from USPTO at
 CC seqdata.uspto.gov/sequence.html?docID=20030194704
 CC
 CC
 XX
 SQ Sequence 58 AA;
 QY
 Db 1 AGGV 4
 31 AGGV 34
 Query Match 100.0%; Score 19; DB 8; Length 58;
 Best Local Similarity 100.0%; Pred. No. 2.4e+03; Indels 0; Gaps 0;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 RESULT 147
 AEA79702
 ID AEA79702 standard; protein; 58 AA.
 XX
 AC AEA79702;
 XX
 XX 11-AUG-2005 (first entry)
 DT
 XX Cellulomonas sp. isolate 69B4 serine protease fragment SEQ ID NO 12.

XX
 KM serine protease; cellulomonadin; feedstuff; textile; leather;
 KM protein engineering; enzyme engineering.
 XX
 OS Cellulomonas sp.
 XX WO2005052146-A2.
 XX
 XX 09-JUN-2005.
 XX
 XX
 XX 19-NOV-2004; 2004WO-US039066.
 PF 19-NOV-2003; 2003US-0523609P.
 XX
 XX 19-NOV-2003; 2003US-0523609P.
 XX
 PA (GEMV) GENENCOR INT INC.
 PA (PROC) PROCTER & GAMBLE CO.
 XX
 XX Jones BE, Kolman M, Leeftang C, Oh H, Poulou AJ, Sadlowski ES;
 PI Shaw A, Van Der Kleij WA, Van Marrewijk L;
 PI WPI; 2005-425197/43.
 DR N-PSDB; AEA79703.
 DR
 XX
 XX
 PT New serine protease obtained from a member of the Micrococcineae, useful
 PT in preparing cleaning, animal feed or textile or leather processing
 PT compositions.
 XX
 XX Example 4; SEQ ID NO 12; 356pp; English.
 PS
 XX This invention describes a novel serine protease (cellulomonadin)
 CC obtained from a member of the Micrococcineae e.g. Cellulomonas 69B4,
 CC Oerskovia, Cellulomicrobium, Xylanthacterium or Promicromonospora,
 CC useful in preparing cleaning compositions, animal feed compositions or
 CC textile or leather processing compositions. The invention also describes
 CC novel stable variant serine protease having at least one improved
 CC property as compared to wild-type protease e.g. altered substrate
 CC specificity, altered pI, improved activity and better performance in at
 CC least one property consisting of keratin hydrolysis, thermostability,
 CC casein activity, LAS stability or cleaning, as compared to wild-type
 CC Cellulomonas 69B4 protease. The invention also describes 1) a novel
 CC composition comprising an isolated serine protease having immunological
 CC cross-reactivity; 2) polynucleotides encoding the variant serine
 CC proteases; 3) an expression vector comprising a polynucleotide sequence
 CC encoding the protease variant; 4) a host cell comprising or transformed
 CC with the expression vector; 5) a method of producing an enzyme having
 CC protease activity; 6) a probe for detecting a nucleic acid sequence
 CC encoding an enzyme having proteolytic activity and obtained from a member
 CC of the Micrococcineae; 7) a liquid cleaning composition comprising at
 CC least one serine protease obtained from a member of the Micrococcineae or
 CC a proteolytic acid stable enzyme combined with additional enzymes or
 CC enzyme derivatives consisting of proteases, amylases, lipases,
 CC mannanases, pectinases, cellulases, oxidoreductases, hemicellulases or
 CC cellulases or stabilizing agent e.g. Borax, glycerol or competitive
 CC inhibitors; 8) a method of cleaning using the composition and 9) the
 CC manufacture of an animal feed comprising the serine protease. This
 CC sequence represents a fragment of the Cellulomonas sp. isolate 69B4
 CC serine protease. The polynucleotide encoding this fragment is used to
 CC design primers AEA79700 and AEA79701.
 CC
 CC
 XX
 SQ Sequence 58 AA;
 QY
 Db 1 AGGV 4
 47 AGGV 50
 Query Match 100.0%; Score 19; DB 9; Length 58;
 Best Local Similarity 100.0%; Pred. No. 2.4e+03; Indels 0; Gaps 0;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 RESULT 148
 AEA48196
 ID AEA48196 standard; protein; 58 AA.

```

XX AC AEA48196;
XX XX 11-AUG-2005 (first entry)
XX DE Part of the serine protease derived from Cellulomonas, SEQ ID NO: 12.
XX XX serine protease; hydrolysis; animal feed; detergent; textile; leather;
XX KM enzyme.
XX OS Cellulomonas.
XX PN MO2005052161-A2.
XX PD 09-JUN-2005.
XX PF 19-NOV-2004; 2004WO-US039006.
XX PR 19-NOV-2003; 2003US-0523609P.
XX PA (GENENCOR ) GENENCOR INT INC.
XX PI Jones BE, Kolkman M, Leeftang C, Poulou AJ, Shaw A;
XX PI Van Der Kleij WA, Van Marrewijk L;
XX DR WPI: 2005-425198/43.
XX PS New serine protease (isolated from a member of the Micrococciaceae) useful
XX PT in e.g. cleaning composition and animal feed composition.
XX XX Example 4; SEQ ID NO 12; 333pp; English.
XX CC The present invention relates to new isolated variant serine protease as
XX CC given in SEQ ID NO:8 (1), obtained from a member of the Micrococciaceae.
XX CC Also claimed are compositions comprising an isolated serine protease
XX CC having immunological cross-reactivity with the serine proteases obtained
XX CC from a member of the Micrococciaceae and particularly the protease
XX CC obtained from Cellulomonas 69B4. The variant has improved stability as
XX CC compared to wild-type Cellulomonas 69B4 protease. The protease is
XX CC obtained from Cellulomonas, Oerskovia, Cellulosimicrobium,
XX CC Xylanbacterium or Promicromonospora (preferably Cellulomonas 69B4). The
XX CC variant serine protease comprises at least one substitution corresponding
XX CC to the amino acid positions in SEQ ID NO: 8, and where the variant
XX CC protease has better performance in at least one property of keratin
XX CC hydrolysis, thermostability, casein activity, LAS stability or cleaning,
XX CC as compared to wild-type Cellulomonas 69B4 protease. The invention deals
XX CC with serine proteases, genetic material encoding the proteases,
XX CC proteolytic proteins obtained from Micrococciaceae spp, variant proteins
XX CC developed from them, vectors comprising the DNA encoding the protease,
XX CC host cells transformed with the vector DNA and enzymes produced by the
XX CC host cells. (1) is useful in cleaning compositions and animal feed
XX CC compositions, and is useful in laundry and dish detergents. It is useful
XX CC in textile and leather processing compositions. The isolated
XX CC polynucleotide of (1) provides the capability of isolating further
XX CC polynucleotides, which encode proteins having serine protease activity.
XX CC The enzyme compositions have comparable or improved wash performance, as
XX CC compared to presently used subtilisin proteases. The present sequence is
XX CC part of the serine protease derived from Cellulomonas, SEQ ID NO: 12.
XX XX
XX SQ Sequence 58 AA;
XX
XX Query Match 100.0%; Score 19; DB 9; Length 58;
XX Best Local Similarity 100.0%; Pred. No. 2.4e+03;
XX Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1 AAGV 4
XX ||||
XX Db 47 AAGV 50
XX
XX RESULT 149
XX AAB58882
XX ID AAB58882 standard; protein; 59 AA.

```

```

XX AC AAB58882;
XX XX 27-MAR-2001 (first entry)
XX DE Breast and ovarian cancer associated antigen protein sequence SEQ ID 590.
XX XX Human; breast cancer; ovarian cancer; cytostatic; immunosuppressive;
XX KM neutrotropic; neuroprotective; antiviral; antiallergic; hepatotropic;
XX KM antidiabetic; antiinflammatory; antilucer; vulnerary; anticonvulsant;
XX KM antibacterial; antifungal; antiparasitic; cardiant; immune disorder;
XX KM Addison's disease; allergy; autoimmune haemolytic anaemia;
XX KM autoimmune thyroiditis; diabetes mellitus; Crohn's disease;
XX KM multiple sclerosis; rheumatoid arthritis; ulcerative colitis;
XX KM cardiovascular disorder; wound healing; neurological disease.
XX XX
XX OS Homo sapiens.
XX XX WO200055173-A1.
XX PN 21-SEP-2000.
XX PD 08-MAR-2000; 2000WO-US005881.
XX PF 12-MAR-1999; 99US-0124270P.
XX PR (HDMA-) HUMAN GENOME SCI INC.
XX PA Rosen CA, Ruben SM;
XX PI WPI: 2000-611515/58.
XX DR N-PSDB; AAF21785.
XX XX New human breast and ovarian cancer associated gene sequences and the
XX PT polypeptides encoded by these genes, useful in the prevention, treatment
XX PT and diagnosis of cancer, immune disorders, cardiovascular disorders and
XX PT neurological diseases.
XX PS Claim 11; Page 1027; 1299pp; English.
XX XX
XX CC Sequences AAF21614 - AAF22031 represent DNA sequences encoding human
XX CC proteins AAB58711 - AAB59128. The DNA and protein sequences are
XX CC associated with breast and ovarian cancer. Included in the invention are
XX CC sequences AAF22032 - AAF22040 and AAB59129 which are used in the
XX CC isolation and characterisation of the DNA and protein sequences of the
XX CC invention. The breast and ovarian cancer associated DNA, protein, agonist
XX CC or antagonist sequences exhibit cytostatic; immunosuppressive; neutrotropic;
XX CC neuroprotective; antiviral; antiallergic; hepatotropic; antidiabetic;
XX CC antiinflammatory; antilucer; vulnerary; anticonvulsant; antibacterial;
XX CC antifungal; antiparasitic and cardiant activity. The polynucleotide and
XX CC protein sequences are used in the diagnosis of cancer, particularly
XX CC breast and ovarian cancer. The nucleic acid sequences, proteins, agonists
XX CC and agonists may also be used in the diagnosis, prevention and treatment
XX CC of immune disorders e.g. Addison's disease, allergies, autoimmune
XX CC haemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's
XX CC disease, multiple sclerosis, rheumatoid arthritis and ulcerative colitis;
XX CC cardiovascular disorders such as myocardial ischaemias; wound healing;
XX CC neurological diseases such as cerebral anoxia and epilepsy; and
XX CC infectious diseases
XX XX
XX SQ Sequence 59 AA;
XX
XX Query Match 100.0%; Score 19; DB 3; Length 59;
XX Best Local Similarity 100.0%; Pred. No. 2.5e+03;
XX Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1 AAGV 4
XX ||||
XX Db 13 AAGV 16
XX
XX RESULT 150
XX AAU55984

```

ID AAU55984 standard; protein; 59 AA.
XX
AC AAU55984;
XX
XX 27-FEB-2002 (first entry)
XX
DE Propionibacterium acnes immunogenic protein #16880.
XX
KM SAPHO syndrome; synovitis; acne; pustulosis; hypertonosis; osteomyelitis;
KM uveitis; endophthalmitis; bone; joint; central nervous system; ELISA;
KM inflammatory lesion; acne vulgaris; enzyme linked immunosorbent assay;
KM dermatological; osteopathic; neuroprotectant.
XX
OS Propionibacterium acnes.
XX
PN M0200181581-A2.
XX
XX 01-NOV-2001.
XX
PF 20-APR-2001; 2001WO-US012865.
XX
PR 21-APR-2000; 2000US-0199047P.
PR 02-JUN-2000; 2000US-020841P.
PR 07-JUL-2000; 2000US-0216747P.
XX
XX (CORI-) CORIXA CORP.
XX
PI Sheikh YM, Persing DH, Mitcham JL, Wang SS, Bhatia A;
PI L'maisonneuve J, Zhang Y, Jen S, Carter D;
XX
DR MPI; 2001-616774/71.
DR N-PSDB; AAS59573.
XX
PT Propionibacterium acnes polypeptides and nucleic acids useful for
PT vaccinating against and diagnosing infections, especially useful for
PT treating acne vulgaris.
XX
XX Example 1; SEQ ID NO 17179; 1069pp; English.
XX
PS Sequences AAU39105-AAU68017 represent Propionibacterium acnes immunogenic
CC polypeptides. The proteins and their associated DNA sequences are used in
CC the treatment, prevention and diagnosis of medical conditions caused by
CC P. acnes. The disorders include SAPHO syndrome (synovitis, acne,
CC pustulosis, hypertonosis and osteomyelitis), uveitis and endophthalmitis.
CC P. acnes is also involved in infections of bone, joints and the central
CC nervous system, however it is particularly involved in the inflammatory
CC lesions associated with acne vulgaris. A method for detecting the
CC presence or absence of P. acnes in a patient comprises contacting a
CC sample with a binding agent that binds to the proteins of the invention
CC and determining the amount of bound protein in the sample. The
CC polypeptides may be used as antigens in the production of antibodies
CC specific for P. acnes proteins. These antibodies can be used to
CC downregulate expression and activity of P. acnes polypeptides and
CC therefore treat P. acnes infections. The antibodies may also be used as
CC diagnostic agents for determining P. acnes presence, for example, by
CC enzyme linked immunosorbent assay (ELISA). Note: The sequence data for
CC this patent did not form part of the printed specification, but was
CC obtained in electronic format directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 59 AA;
Query Match 100.0%; Score 19; DB 4; Length 59;
Best Local Similarity 100.0%; Pred. No. 2.5e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

ID ABP00743 standard; protein; 59 AA.
XX
AC ABP00743;
XX
XX 24-JUN-2002 (first entry)
XX
DE Human ORFX protein sequence SEQ ID NO:1468.
XX
KM Human; open reading frame; ORFX; gene therapy; cancer; cirrhosis;
KM hyperproliferative disorder; psoriasis; benign tumour; haemorrhage;
KM degenerative disorder; osteoarthritis; neurodegenerative disorder;
KM cardiovascular disease; diabetes mellitus; systemic lupus erythematosus;
KM hypertension; hypothyroidism; cholesterol ester storage disease;
KM immune deficiency; immune disorder; infectious disease;
KM autoimmune disorder; rheumatoid arthritis; autoimmune thyroiditis;
KM myasthenia gravis.
XX
XX Homo sapiens.
XX
OS
XX
PN M0200192523-A2.
XX
XX 06-DEC-2001.
XX
PD 29-MAY-2001; 2001WO-US010836.
XX
PR 30-MAY-2000; 2000US-0206132P.
PR 29-AUG-2000; 2000US-0228716P.
XX
XX (CURA-) CURAGEN CORP.
XX
PA Shinkets RA, Leach MD;
XX
PI MPI; 2002-106308/14.
XX
DR N-PSDB; ABN16495.
XX
PT Novel human polypeptides and polynucleotides useful for diagnosing,
PT preventing and treating cardiovascular disease, neurodegenerative,
PT hyperproliferative disorders and autoimmune disorders.
XX
XX Disclosure; SEQ ID NO 1468; 1037pp; English.
XX
PS The present invention describes substantially purified human proteins
XX (referred to as open reading frame, ORFX, where X is 1-11491 (see Table 1
CC in the specification). ABN15762 to ABN27252 encode the human ORFX
CC proteins given in ABP00010 to ABP11500. ORFX proteins are useful for
CC treating or preventing a pathology associated with an ORFX-associated
CC disorder in humans, and in the manufacture of a medicament for treating a
CC syndrome associated with ORFX-associated disorder. ORFX polynucleotide
CC sequences can be used in gene therapy. ORFX sequences can be used in the
CC treatment of cancer, hyperproliferative disorders, cirrhosis of liver,
CC prolatiasis, benign tumours, keloid, degenerative disorders, haemorrhage,
CC osteoarthritis, neurodegenerative disorders, diabetes mellitus, systemic
CC lupus erythematosus, cardiovascular diseases, diabetes mellitus, systemic
CC storage disease, various immune deficiencies and disorders, infectious
CC diseases, autoimmune disorders such as multiple sclerosis, rheumatoid
CC arthritis, autoimmune thyroiditis, myasthenia gravis, graft-versus-host
CC disease and autoimmune inflammatory eye disease. ORFX proteins are also
CC useful for creating burns, incisions, ulcers, for treating osteoporosis,
CC bone degenerative disorders, or periodontal disease, and for gut
CC protection or regeneration and treatment of lung or liver fibrosis,
CC reperfusion injury in various tissues and conditions resulting from
CC systemic cytokine damage. N.B. The sequence data for this patent did not
CC form part of the printed specification, but was obtained in electronic
CC format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 59 AA;
Query Match 100.0%; Score 19; DB 5; Length 59;
Best Local Similarity 100.0%; Pred. No. 2.5e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;


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DB          5 AOV 8
|||||
RESULT 152
ABO4473
ID ABO4473 standard; protein; 59 AA.
XX
AC ABO4473;
XX
DT 15-MAR-2002 (first entry)
XX
DE Human endoprotease 6.
XX
KM Human, endoprotease 6; cancer; haemopathy; HIV infection; gene therapy.
XX
OS Homo sapiens.
XX
PN CN315558-A.
XX
PD 03-OCT-2001.
XX
PF 24-MAR-2000; 2000CN-00115125.
XX
PR 24-MAR-2000; 2000CN-00115125.
XX
PA (BODE-) BODE GENE DEV CO LTD SHANGHAI.
XX
PI Mao Y, Xie Y;
XX
DR WPI; 2002-056348/08.
XX
DR N-PSDB; ABO5803.
XX
PT New human endoprotease 6 and encoding polynucleotide, useful for treating
XX
PS cancer, hemopathy and human immunodeficiency virus.
XX
CC Claim 1; Page 26(Disclosure); 32pp; Chinese.
XX
CC The present invention provides the protein and coding sequences of human
XX
CC endoprotease 6. The sequences can be used in the treatment of cancer,
XX
CC haemopathy and HIV infection. The present sequence is the protein of the
XX
CC invention
XX
SQ Sequence 59 AA;
Query Match 100.0%; Score 19; DB 5; Length 59;
Best Local Similarity 100.0%; Pred. No. 2.5e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AOV 4
Db 6 AOV 9
RESULT 153
ABO52503
ID ABO52503 standard; protein; 59 AA.
XX
AC ABO52503;
XX
DT 20-OCT-2003 (first entry)
XX
DE Propionibacterium acnes predicted ORF-encoded polypeptide #17179.
XX
KM Acne vulgaris; antiseborrheic; dermatological; antibacterial;
XX
KW immunostimulant; immune response; vaccine.
XX
OS Propionibacterium acnes.
XX
PN WO2003033515-A1.
XX
PD 24-APR-2003.
XX

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PF 11-OCT-2002; 2002MO-US032727.
XX
XX 15-OCT-2001; 2001US-00978825.
XX
XX (CORI-) CORIXA CORP.
XX
PI Mitcham JI, Skelky YAW, Persing DH, Bharti A, Malsomeuve JI;
XX
PI Zhang Y, Wang S, Jen S, Lodes MJ, Benson DR, Jones R, Carter D;
XX
PI Barth B, Vallieve-Douglas J;
XX
DR WPI; 2003-381789/36.
XX
DR N-PSDB; ACF64502.
XX
PT New Propionibacterium acnes polypeptides and polynucleotides encoding the
XX
PT polypeptide, useful for diagnosing, preventing or creating acne vulgaris,
XX
PT or for stimulating an immune response specific for a P. acnes protein.
XX
PS Example 1; SEQ ID NO 17179; 1481pp; English.
XX
XX The invention relates to an isolated polynucleotide (ACF64435-ACF64733)
XX
XX encoding a Propionibacterium acnes protein. The invention also relates to
XX
XX polypeptides encoded by the polynucleotides (ABM35624-ABM64536) and to
XX
XX immunogenic fragments of P. acnes polypeptides. The invention
XX
XX additionally encompasses expression vectors and host cells comprising a
XX
XX polynucleotide of the invention; antibodies against polypeptides of the
XX
XX invention; fusion proteins comprising a polypeptide of the invention; a
XX
XX method for stimulating an immune response specific for a P. acnes
XX
XX polypeptide and an isolated T cell population comprising T cells prepared
XX
XX via this method; a vaccine composition (comprising P. acnes polypeptides,
XX
XX polynucleotides, antibodies, fusion proteins, T cell populations, or
XX
XX antigen-presenting cells that express the polypeptide); a method and kit
XX
XX for detecting or determining the presence or absence of P. acnes in a
XX
XX patient; and a method for inhibiting the development of P. acnes in a
XX
XX patient. The P. acnes polypeptides, polynucleotides, antibodies, fusion
XX
XX proteins, T cell populations or antigen-presenting cells that express the
XX
XX polypeptides are useful for diagnosing, preventing or treating acne
XX
XX vulgaris, or for stimulating an immune response specific for a P. acnes
XX
XX protein. The polynucleotides can also be used as probes or primers for
XX
XX nucleic acid hybridisation. The vaccine composition is useful for the
XX
XX stimulation of an immune response against P. acnes, or for treating acne,
XX
XX and the kit is useful for performing a diagnostic assay. The present
XX
XX sequence represents a polypeptide predicted to be encoded by an ORF (open
XX
XX reading frame) contained within the P. acnes polynucleotides of the
XX
XX invention. Note: The sequence data for this patent did not form part of
XX
XX the printed specification, but was obtained in electronic format directly
XX
XX from WIPO at ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 59 AA;
Query Match 100.0%; Score 19; DB 6; Length 59;
Best Local Similarity 100.0%; Pred. No. 2.5e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AOV 4
Db 44 AOV 47
RESULT 154
ABO54645
ID ABO54645 standard; protein; 59 AA.
XX
AC ABO54645;
XX
DT 29-JUL-2004 (first entry)
XX
DE Human genome derived single exon protein #879.
XX
KM Human; gene expression; single exon probe; microarray;
XX
KW alternative splicing event; genomic alteration.
XX
OS Homo sapiens.
XX

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PN US2003194704-A1.
 XX 16-OCT-2003.
 XX 03-APR-2002; 2002US-00029386.
 XX 03-APR-2002; 2002US-00029386.
 XX (PENN/) PENN S G.
 PA (RANK/) RANK D R.
 PA (HANZ/) HANZEL D K.
 XX Penn SG, Rank DR, Hanzel DK;
 PI WPI; 2004-119264/12.
 DR
 XX
 XX New human genome-derived single exon nucleic acid probes useful for human
 PT gene expression analysis, for identifying or characterizing alternative
 PT splicing events, for assessing genomic alterations or as tools for
 PT surveying tissues.
 XX
 XX Claim 45; SEQ ID NO 28279; 80pp; English.
 PS
 XX The invention relates to a nucleic acid probe for measuring human gene
 CC expression, comprising any of the 27,400 fully defined nucleotide
 CC sequences in the specification, or their complements or fragments, and
 CC encoding at least 8 amino acids of any of the 6888 amino acid sequences
 CC fully defined in the specification. The probe is a single exon probe that
 CC hybridizes under high stringency conditions to a nucleic acid molecule
 CC expressed in human cells or tissues. Also included are a spatially-
 CC addressable set of single exon nucleic acid probes for measuring human
 CC gene expression (comprising a plurality of single exon nucleic acid
 CC probes cited above, where each of the plurality of probes is separately
 CC and addressably isolatable or amplifiable from the plurality), a single
 CC exon microarray for measuring human gene expression, a method of
 CC measuring human gene expression, a vector comprising the single exon
 CC probe cited above, an ORF-encoded peptide comprising at least 8
 CC contiguous amino acids of any of the above-mentioned amino acid
 CC sequences (optionally with conservative amino acid substitutions), an
 CC isolated antibody that binds specifically to a peptide cited above,
 CC methods of selling and/or licensing single exon probes or microarrays to
 CC a customer desiring to measure gene expression, a method of providing
 CC human gene expression data by subscription, and a computer-readable
 CC storage medium which contains a database having a plurality of records
 CC (each record including data on the expression of a single exon probe
 CC cited above. The probe, methods and apparatus are useful in gene
 CC expression analysis. The probes may be used as tools for surveying
 CC tissues to detect the presence of expressed messages that contain their
 CC specific exon, or in constructing genome-derived single exon microarrays.
 CC In addition, the probes are used in identifying and characterizing
 CC alternative splicing events, in detecting and characterizing gross
 CC alterations in the genomic locus that includes their exon, in assessing
 CC smaller genomic alterations, in printing the synthesis of nucleic acids,
 CC or in expressing the ORF-encoded peptide. The present sequence is a human
 CC single exon probe protein of the invention. Note: The sequence data for
 CC this patent did not form part of the printed specification, but was
 CC obtained in electronic format directly from USPTO at
 CC seqdata.uspto.gov/sequence.html?docid=20030194704
 CC
 XX
 SQ Sequence 59 AA;
 Query Match 100.0%; Score 19; DB 8; Length 59;
 Best Local Similarity 100.0%; Pred. No. 2.5e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 155
 AAU48065
 ID AAU48065 standard; protein; 60 AA.

Qy 1 AAGV 4
 ||||
 Db 52 AAGV 55

XX
 AC AAU48065;
 XX
 DT 27-FEB-2002 (first entry)
 XX
 DE Propionibacterium acnes immunogenic protein #8961.
 XX
 KW SAPHO syndrome; synovitis; acne; pustulosis; hypertosis; osteomyelitis;
 KW uveitis; endophthalmitis; bone; joint; central nervous system; ELISA;
 KW inflammatory lesion; acne vulgaris; enzyme linked immunosorbent assay;
 KW dermatological; osteopathic; neuroprotectant.
 XX
 OS Propionibacterium acnes.
 XX
 XX WO200181581-A2.
 XX
 XX 01-NOV-2001.
 XX
 XX 20-APR-2001; 2001WO-US012865.
 XX
 XX 21-APR-2000; 2000US-0199047P.
 XX 02-JUN-2000; 2000US-0208841P.
 XX 07-JUL-2000; 2000US-0216747P.
 XX
 XX (CORI-) CORIXA CORP.
 PA
 XX
 PI Sheikh YAM, Persing DH, Mitcham JL, Wang SS, Bhactia A;
 PI L'abbonneuve J, Zhang Y, Jen S, Carter D;
 XX
 XX WPI; 2001-616774/71.
 DR N-PSDB; AAS59541.
 XX
 XX Propionibacterium acnes polypeptides and nucleic acids useful for
 PT vaccinating against and diagnosing infections, especially useful for
 PT treating acne vulgaris.
 PT
 XX
 PS Example 1; SEQ ID NO 9260; 1069pp; English.
 XX
 CC Sequences AAU39105-AAU68017 represent Propionibacterium acnes immunogenic
 CC polypeptides. The proteins and their associated DNA sequences are used in
 CC the treatment, prevention and diagnosis of medical conditions caused by
 CC P. acnes. The disorders include SAPHO syndrome (synovitis, acne,
 CC pustulosis, hypertosis and osteomyelitis), uveitis and endophthalmitis.
 CC P. acnes is also involved in infections of bone, joints and the central
 CC nervous system, however it is particularly involved in the inflammatory
 CC lesions associated with acne vulgaris. A method for detecting the
 CC presence or absence of P. acnes in a patient comprises contacting a
 CC sample with a binding agent that binds to the proteins of the invention
 CC and determining the amount of bound protein in the sample. The
 CC polypeptides may be used as antigens in the production of antibodies
 CC specific for P. acnes proteins. These antibodies can be used to
 CC downregulate expression and activity of P. acnes polypeptides and
 CC therefore treat P. acnes infections. The antibodies may also be used as
 CC diagnostic agents for determining P. acnes presence, for example, by
 CC enzyme linked immunosorbent assay (ELISA). Note: The sequence data for
 CC this patent did not form part of the printed specification, but was
 CC obtained in electronic format directly from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 CC
 XX
 SQ Sequence 60 AA;
 Query Match 100.0%; Score 19; DB 4; Length 60;
 Best Local Similarity 100.0%; Pred. No. 2.5e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 156
 ABP32165
 ID ABP32165 standard; protein; 60 AA.

Qy 1 AAGV 4
 ||||
 Db 57 AAGV 60

XX AC ABP32165;
 XX XX 08-JUL-2002 (first entry)
 XX XX
 DE Human ORF1138 protein, SEQ ID NO:2276.
 XX XX
 KM Human; ORF: open reading frame; ORFX: drug screening; diagnosis;
 KM disease monitoring; cytokine; cell proliferation; cell differentiation;
 KM immune modulation; haematopoiesis regulation; tissue growth;
 KM angiogenesis; activin; inhibin; chemotactic; chemokinetic; haemostatic;
 KM thrombolytic; tumour inhibition; bodily characteristics; fertility;
 KM behaviour; cancer; proliferative disorder; neurological disorder;
 KM cardiovascular disease; immune system disorder; organ transplantation;
 KM tissue growth disorder; tissue regeneration disorder; diabetes mellitus;
 KM hypothyroidism; cholesterol ester storage disease; infection; vlnerrary;
 KM vasotrophic; antipsoriatic; antidiabetic; cystostatic; nootropic;
 KM neuroprotective; antiatherosclerotic; anticoagulant; thrombolytic;
 KM cardiact; hypotensive; antihypertoid; antiinflammatory; immunomodulator;
 KM dermatological; analgesic; virucide; antibacterial; fungicide.
 XX XX
 OS Homo sapiens.
 XX XX
 PN WO200190366-A2.
 XX XX
 PD 29-NOV-2001.
 XX XX
 XX 24-MAY-2001; 2001WO-US017076.
 XX XX
 XX 24-MAY-2000; 2000US-0206690P.
 XX XX
 PA (CURA-) CURAGEN CORP.
 XX XX
 P1 Leach MD, Shimkets RA;
 XX XX
 DR WPI: 2002-106200/14.
 XX XX
 PT N-PSDB; ABN76191.
 PT
 PT Novel human polypeptides and polynucleotides useful for diagnosing,
 PT preventing and treating cardiovascular disease, neurodegenerative,
 PT hyperproliferative disorders and disorders related to organ
 PT transplantation.
 XX XX
 PS Claim 10; Page 832; 2508pp; English.
 XX XX
 XX Sequences ABP31028-ABP35561 represent 4534 novel human proteins
 CC designated ORF (open reading frame) 1-4534, and sequences ABN75054-
 CC ABN79587 represent cDNAs encoding them. The invention also encompasses
 CC polypeptides at least 80% identical to the ORF1-ORF4534 (collectively
 CC referred to as ORFX) proteins, polynucleotides at least 85% identical to
 CC the ORFX nucleic acid sequences, vectors and host cells comprising ORFX
 CC polynucleotides, the recombinant production of ORFX proteins, antibodies
 CC specific for ORFX proteins, methods of detecting ORFX polynucleotides and
 CC polypeptides, methods of screening for modulators of ORFX expression or
 CC activity, and methods of screening individuals for a predisposition to an
 CC ORFX-associated disorder. The ORFX proteins of the invention have a wide
 CC range of biological activities, such as cytokine, cell proliferation,
 CC cell differentiation, immune modulation, haematopoiesis regulation,
 CC tissue growth, angiogenesis, activin or inhibin activity, chemotactic/
 CC chemokinetic activity, haemostatic activity, thrombolytic activity,
 CC receptor/ligand, antiinflammatory activity, tumour inhibition activity,
 CC and antiinfective activity, and may also be involved in the determination
 CC of bodily characteristics, fertility and behaviour. ORFX proteins,
 CC nucleic acids and antibodies may be used in the treatment of cancers,
 CC other proliferative disorders such as psoriasis and benign tumours,
 CC neurological disorders such as epilepsy and Alzheimer's disease,
 CC cardiovascular diseases, immune system disorders, disorders related to
 CC organ transplantation, disorders of tissue growth and regeneration,
 CC diseases such as diabetes mellitus, hypothyroidism, and cholesterol ester
 CC storage disease, and infectious diseases caused by viral, bacterial,
 CC fungal and other pathogens. ORFX nucleic acids may also be used as a
 CC source of primers and probes, in the detection of ORFX genomic sequences
 CC or transcripts, in the identification and cloning of homologous

CC sequences, in genetic diagnosis, and in forensic biology. The ORFX
 CC nucleic acids may additionally be used to produce transgenic animals
 CC which may be useful for studying the function and/or activity of ORFX
 CC protein, and in drug screening. The ORFX proteins may also be used as
 CC immunogens to generate specific antibodies, which are useful in the
 CC diagnosis, treatment and monitoring of ORFX-associated diseases
 XX XX
 SQ Sequence 60 AA;
 XX
 Query Match 100.0%; Score 19; DB 5; Length 60;
 Best Local Similarity 100.0%; Pred. No. 2.5e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 ACGV 4
 Db 20 ACGV 23
 RESULT 157
 ABM44584
 ID ABM44584 standard; protein; 60 AA.
 XX AC
 XX ABM44584;
 XX XX
 DT 20-OCT-2003 (first entry)
 XX XX
 DE Propionibacterium acnes predicted ORF-encoded polypeptide #9260.
 XX XX
 KM Acne vulgaris; antiseborrheic; dermatological; antibacterial;
 KM immunostimulant; immune response; vaccine.
 XX XX
 OS Propionibacterium acnes.
 XX XX
 PN WO2003033515-A1.
 XX XX
 PD 24-APR-2003.
 XX XX
 XX 11-OCT-2002; 2002WO-US032727.
 XX XX
 PR 15-OCT-2001; 2001US-00978825.
 XX XX
 PA (CORI-) CORIXA CORP.
 XX XX
 P1 Mitcham JL, Skeiky YAW, Persing DH, Bhatia A, Maisonneuve JL;
 PI Zhang Y, Wang S, Jen S, Lodes MJ, Benson DR, Jones R, Carter D;
 PI Barth B, Vallieve-Douglase J;
 XX XX
 DR WPI: 2003-381789/36.
 XX XX
 PT N-PSDB; ACF64470.
 PT
 PT New Propionibacterium acnes polypeptides and polynucleotides encoding the
 PT polypeptide, useful for diagnosing, preventing or treating acne vulgaris,
 PT or for stimulating an immune response specific for a P. acnes protein.
 XX XX
 PS Example 1; SEQ ID NO 9260; 1481pp; English.
 XX XX
 XX The invention relates to an isolated polynucleotide (ACF64435-ACF64733)
 CC encoding a Propionibacterium acnes protein. The invention also relates to
 CC polypeptides encoded by the polynucleotide (ABM35624-ABM64536) and to
 CC immunogenic fragments of P. acnes polypeptides. The invention
 CC additionally encompasses expression vectors and host cells comprising a
 CC polynucleotide of the invention; antibodies against polypeptides of the
 CC invention; fusion proteins comprising a polypeptide of the invention; a
 CC method for stimulating an immune response specific for a P. acnes
 CC polypeptide and an isolated T cell population comprising T cells prepared
 CC via this method; a vaccine composition (comprising P. acnes polypeptides,
 CC polynucleotides, antibodies, fusion proteins, T cell populations, or
 CC antigen-presenting cells that express the polypeptide); a method and kit
 CC for detecting or determining the presence or absence of P. acnes in a
 CC patient; and a method for inhibiting the development of P. acnes in a
 CC patient. The P. acnes polypeptides, polynucleotides, antibodies, fusion
 CC proteins, T cell populations or antigen-presenting cells that express the
 CC polypeptides are useful for diagnosing, preventing or treating acne

CC vulgaris, or for stimulating an immune response specific for a *P. acnes*
 CC protein. The polynucleotides can also be used as probes or primers for
 CC nucleic acid hybridisation. The vaccine composition is useful for the
 CC stimulation of an immune response against *P. acnes*, or for treating acne,
 CC and the kit is useful for performing a diagnostic assay. The present
 CC sequence represents a polypeptide predicted to be encoded by an ORF (open
 CC reading frame) contained within the *P. acnes* polynucleotides of the
 CC invention. Note: The sequence data for this patent did not form part of
 CC the printed specification, but was obtained in electronic format directly
 CC from WIFO at ftp.wifo.int/pub/published_pct_sequences
 CC
 CC Sequence 60 AA;

Query Match 100.0%; Score 19; DB 6; Length 60;
 Best Local Similarity 100.0%; Pred. No. 2.5e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
 ||||
 Db 57 ACGV 60

RESULT 158

ABO78543
 ID ABO78543 standard; protein; 60 AA.

AC ABO78543;

DT 29-JUL-2004 (first entry)

DE Pseudomonas aeruginosa polypeptide #10718.

KW Bacterial infection; Pseudomonas aeruginosa infection; antibacterial.

OS Pseudomonas aeruginosa.

PN US6551795-B1.

PD 22-APR-2003.

PF 18-FEB-1999; 99US-00252991.

PR 18-FEB-1998; 98US-0074788P.

PR 27-JUL-1998; 98US-0094190P.

PA (GENO-) GENOME THERAPEUTICS CORP.

PI Rubentfield MJ, Nolling J, Deloughery C, Bush D;

DR WPI; 2003-615309/58.

DR N-PSDB; ABD12114.

PT Novel isolated nucleic acid encoding Pseudomonas aeruginosa polypeptide,
 PT useful as molecular targets for diagnostics, prophylaxis and treatment of
 PT pathological conditions resulting from bacterial infection.

PS Disclosure; SEQ ID NO 27289; 455BP; English.

XX The invention relates to Pseudomonas aeruginosa polypeptides and the
 CC polynucleotides encoding them. The sequences are useful in diagnosis and
 CC therapy of pathological conditions, as molecular targets for diagnostics,
 CC prophylaxis and treatment of pathological conditions resulting from a
 CC bacterial infection, for evaluating a compound, such as a polypeptide,
 CC for the ability to bind a *P. aeruginosa* nucleic acid, as components of
 CC effective antibacterial targets, as targets for antibacterial drugs,
 CC including anti-*P. aeruginosa* drugs, as templates for recombinant
 CC production of *P. aeruginosa*-derived peptides or polypeptides, as target
 CC components for diagnosis and/or treatment of *P. aeruginosa*-caused
 CC infection, and in detection of *P. aeruginosa* sequences or other sequences
 CC of Pseudomonas species using biochip technology. Sequences ABO67826-
 CC ABO84396 represent *P. aeruginosa* polypeptides of the invention. Note: The
 CC sequence data for this patent did not form part of the printed
 CC specification but was obtained in electronic format from USPTO at

CC seqdata.uspto.gov/sequence.html
 XX
 XX Sequence 60 AA;

Query Match 100.0%; Score 19; DB 7; Length 60;
 Best Local Similarity 100.0%; Pred. No. 2.5e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
 ||||
 Db 24 ACGV 27

RESULT 159

AAU61564
 ID AAU61564 standard; protein; 61 AA.

AC AAU61564;

DT 27-FEB-2002 (first entry)

DE Propionibacterium acnes immunogenic protein #22460.

XX SAPHO syndrome; synovitis; acne; pustulosis; hyperostosis; osteomyelitis;

KW uveitis; endophthalmitis; bone; joint; central nervous system; ELISA;

KW inflammatory lesion; acne vulgaris; enzyme linked immunosorbent assay;

XX dermatological; osteopathic; neuroprotectant.

OS Propionibacterium acnes.

PN W0200181581-A2.

PD 01-NOV-2001.

PF 20-APR-2001; 2001WO-US012865.

PR 21-APR-2000; 2000US-0199047P.

PR 02-JUN-2000; 2000US-0208641P.

PR 07-JUL-2000; 2000US-0216747P.

PA (CORI-) CORIXA CORP.

PI Skeiky YAM, Persing DH, Mitcham JL, Wang SS, Bhattacha A;

PI L'maisonmeuve J, Zhang Y, Jen S, Carter D;

DR N-PSDB; AAS59618.

DR WPI; 2001-616774/71.

PT Propionibacterium acnes polypeptides and nucleic acids useful for

PT vaccinating against and diagnosing infections, especially useful for

PT treating acne vulgaris.

PS Example 1; SEQ ID NO 22759; 1069BP; English.

XX Sequences AAU39105-AAU68017 represent Propionibacterium acnes immunogenic

CC polypeptides. The proteins and their associated DNA sequences are used in

CC the treatment, prevention and diagnosis of medical conditions caused by

CC *P. acnes*. The disorders include SAPHO syndrome (synovitis, acne,

CC pustulosis, hyperostosis and osteomyelitis), uveitis and endophthalmitis.

CC *P. acnes* is also involved in infections of bone, joints and the central

CC nervous system, however it is particularly involved in the inflammatory

CC lesions associated with acne vulgaris. A method for detecting the

CC presence or absence of *P. acnes* in a patient comprises contacting a

CC sample with a binding agent that binds to the proteins of the invention

CC and determining the amount of bound protein in the sample. The

CC polypeptides may be used as antigens in the production of antibodies

CC specific for *P. acnes* proteins. These antibodies can be used to

CC downregulate expression and activity of *P. acnes* polypeptides and

CC therefore treat *P. acnes* infections. The antibodies may also be used as

CC diagnostic agents for determining *P. acnes* presence, for example, by

CC enzyme linked immunosorbent assay (ELISA). Note: The sequence data for

CC this patent did not form part of the printed specification, but was

CC obtained in electronic format directly from WIFO at

CC ftp.wipo.int/pub/published_pct_sequences
 XX Sequence 61 AA;
 SQ Query Match 100.0%; Score 19; DB 4; Length 61;
 Best Local Similarity 100.0%; Pred. No. 2.6e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AOV 4
 Db 35 AOV 38

RESULT 160
 ABP04708
 ID ABP04708 standard; protein; 61 AA.
 XX AC ABP04708;
 XX DT 25-JUN-2002 (first entry)
 XX DE Human ORFX protein sequence SEQ ID NO:9398.
 XX KM Human; open reading frame; ORFX; gene therapy; cancer; cirrhosis;
 KM hyperproliferative disorder; psoriasis; benign tumour; haemorrhage;
 KM degenerative disorder; osteoarthritis; neurodegenerative disorder;
 KM cardiovascular disease; diabetes mellitus; systemic lupus erythematosus;
 KM hypersteron; hypothyroidism; cholesterol ester storage disease;
 KM immune deficiency; immune disorder; infectious disease;
 KM autoimmune disorder; rheumatoid arthritis; autoimmune thyroiditis;
 KM myasthenia gravis.
 XX OS Homo sapiens.
 XX PN WO200192523-A2.
 XX PD 06-DEC-2001.
 XX PF 29-MAY-2001; 2001WO-US010836.
 XX PR 30-MAY-2000; 2000US-0206132P.
 XX PR 29-AUG-2000; 2000US-0228716P.
 XX PA (CORA-) CURAGEN CORP.
 XX PI Shinkets RA, Leach MD;
 XX DR WPI; 2002-106308/14.
 XX DR N-PSDB; ABN20460.
 XX PT Novel human polypeptides and polynucleotides useful for diagnosing,
 PT preventing and treating cardiovascular disease, neurodegenerative,
 PT hyperproliferative disorders and autoimmune disorders.
 XX PS Disclosure; SEQ ID NO 9398; 1037pp; English.

XX The present invention describes substantially purified human proteins
 CC (referred to as open reading frame, ORFX, where X is 1-11491 (see Table 1
 CC in the specification). ABN15762 to ABN27252 encode the human ORFX
 CC proteins given in ABP00010 to ABP11500. ORFX proteins are useful for
 CC treating or preventing a pathology associated with an ORFX-associated
 CC disorder in humans, and in the manufacture of a medicament for treating a
 CC syndrome associated with ORFX-associated disorder. ORFX polynucleotide
 CC sequences can be used in gene therapy. ORFX sequences can be used in the
 CC treatment of cancer, hyperproliferative disorders, cirrhosis of liver,
 CC psoriasis, benign tumours, keloid, degenerative disorders, haemorrhage,
 CC osteoarthritis, neurodegenerative disorders, disorders related to organ
 CC transplantation, cardiovascular diseases, diabetes mellitus, systemic
 CC lupus erythematosus, hypersteron, hypothyroidism, cholesterol ester
 CC storage disease, various immune deficiencies and disorders, infectious
 CC diseases, autoimmune disorders such as multiple sclerosis, rheumatoid
 CC arthritis, autoimmune thyroiditis, myasthenia gravis, graft-versus-host
 CC disease and autoimmune inflammatory eye disease. ORFX proteins are also

CC useful for treating burns, incisions, ulcers, for treating osteoporosis,
 CC bone degenerative disorders, or periodontal disease, and for gut
 CC protection or regeneration and treatment of lung or liver fibrosis,
 CC reperfusion injury in various tissues and conditions resulting from
 CC systemic cytokine damage. N.B. The sequence data for this patent did not
 CC form part of the printed specification, but was obtained in electronic
 CC format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
 XX SQ Sequence 61 AA;
 OY 1 AOV 4
 Db 54 AOV 57

RESULT 161
 ABM58083
 ID ABM58083 standard; protein; 61 AA.
 XX AC ABM58083;
 XX DT 20-OCT-2003 (first entry)
 XX DE Propionibacterium acnes predicted ORF-encoded polypeptide #2759.
 XX KM Acne vulgaris; antibiorrhoeic; dermatological; antibacterial;
 KM immunostimulant; immune response; vaccine.
 XX OS Propionibacterium acnes.
 XX PN WO2003033515-A1.
 XX PD 24-APR-2003.
 XX PF 11-OCT-2002; 2002WO-US032727.
 XX PR 15-OCT-2001; 2001US-00978825.
 XX PA (CORI-) CORIYA CORP.
 XX PI Mitcham JL, Skeiky YAM, Persing DH, Bhalaria A, Maisonneuve JL;
 XX PI Zhang Y, Wang S, Jen S, Lodes MJ, Benson DR, Jones R, Carter D;
 XX PI Barth B, Vallieue-Douglas J;
 XX DR WPI; 2003-381789/36.
 XX DR N-PSDB; ACF64547.
 XX PT New Propionibacterium acnes polypeptides and polynucleotides encoding the
 PT polypeptide, useful for diagnosing, preventing or treating acne vulgaris,
 PT or for stimulating an immune response specific for a P. acnes protein.
 XX PS Example 1; SEQ ID NO 22759; 1481pp; English.

XX The invention relates to an isolated polynucleotide (ACF64435-ACF64733)
 CC encoding a Propionibacterium acnes protein. The invention also relates to
 CC polypeptides encoded by the polynucleotides (ABM5624-ABM64536) and to
 CC immunogenic fragments of P. acnes polypeptides. The invention
 CC additionally encompasses expression vectors and host cells comprising a
 CC polynucleotide of the invention; antibodies against polypeptides of the
 CC invention; fusion proteins comprising a polypeptide of the invention; a
 CC method for stimulating an immune response specific for a P. acnes
 CC polypeptide and an isolated T cell population comprising T cells prepared
 CC via this method; and a vaccine composition (comprising P. acnes polypeptides,
 CC polynucleotides, antibodies, fusion proteins, T cell populations, or
 CC antigen-presenting cells that express the polypeptide); a method and kit
 CC for detecting or determining the presence or absence of P. acnes in a
 CC patient; and a method for inhibiting the development of P. acnes in a
 CC patient. The P. acnes polypeptides, polynucleotides, antibodies, fusion
 CC proteins, T cell populations or antigen-presenting cells that express the

CC polypeptides are useful for diagnosing, preventing or treating acne
 CC vulgaris, or for stimulating an immune response specific for a *P. acnes*
 CC protein. The polynucleotides can also be used as probes or primers for
 CC nucleic acid hybridisation. The vaccine composition is useful for the
 CC stimulation of an immune response against *P. acnes*, or for treating acne,
 CC and the kit is useful for performing a diagnostic assay. The present
 CC sequence represents a polypeptide predicted to be encoded by an ORF (open
 CC reading frame) contained within the *P. acnes* polynucleotides of the
 CC invention. Note: The sequence data for this patent did not form part of
 CC the printed specification, but was obtained in electronic format directly
 CC from WIPO at [ftp.wipo.int/pub/published_pct_sequences](http://wipo.int/pub/published_pct_sequences)
 CC
 SQ Sequence 61 AA;

Query Match 100.0%; Score 19; DB 6; Length 61;
 Best Local Similarity 100.0%; Pred. No. 2.6e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 ACGV 4
 ||||
 Db 35 ACGV 38

RESULT 162

AAU64327
 ID AAU64327 standard; protein; 62 AA.

AC AAU64327;

DT 27-FEB-2002 (first entry)

DE Propionibacterium acnes immunogenic protein #25223.

XX SAPHO syndrome; synovitis; acne; pustulosis; hypertosis; osteomyelitis;
 KM uveitis; endophthalmitis; bone; joint; central nervous system; ELISA;
 KM inflammatory lesion; acne vulgaris; enzyme linked immunosorbent assay;
 KM dermatological; osteopathic; neuroprotectant.

XX Propionibacterium acnes.

XX WO200181581-A2.

XX 01-NOV-2001.

XX 20-APR-2001; 2001WO-US012865.

XX 21-APR-2000; 2000US-0199047P.

XX 02-JUN-2000; 2000US-0208841P.

XX 07-JUL-2000; 2000US-0216747P.

XX (CORI-) CORIXA CORP.

XX Skeiky YAM, Persing DH, Mitcham JL, Wang SS, Bhatia A;

XX L'maisonneuve J, Zhang Y, Jen S, Carter D;

XX N-PSDB; AAS59641.

XX WPI; 2001-616774/71.

XX Example 1; SEQ ID NO 25522; 1069pp; English.

CC Sequences AAU39105-AAU68017 represent Propionibacterium acnes immunogenic
 CC polypeptides. The proteins and their associated DNA sequences are used in
 CC the treatment, prevention and diagnosis of medical conditions caused by
 CC *P. acnes*. The disorders include SAPHO syndrome (synovitis, acne,
 CC pustulosis, hypertosis and osteomyelitis), uveitis and endophthalmitis.
 CC *P. acnes* is also involved in infections of bone, joints and the central
 CC nervous system, however it is particularly involved in the inflammatory
 CC lesions associated with acne vulgaris. A method for detecting the
 CC presence or absence of *P. acnes* in a patient comprises contacting a

CC sample with a binding agent that binds to the proteins of the invention
 CC and determining the amount of bound protein in the sample. The
 CC polypeptides may be used as antigens in the production of antibodies
 CC specific for *P. acnes* proteins. These antibodies can be used to
 CC downregulate expression and activity of *P. acnes* polypeptides and
 CC therefore treat *P. acnes* infections. The antibodies may also be used as
 CC diagnostic agents for determining *P. acnes* presence, for example, by
 CC enzyme linked immunosorbent assay (ELISA). Note: The sequence data for
 CC this patent did not form part of the printed specification, but was
 CC obtained in electronic format directly from WIPO at
 CC [ftp.wipo.int/pub/published_pct_sequences](http://wipo.int/pub/published_pct_sequences)
 CC
 SQ Sequence 62 AA;

Query Match 100.0%; Score 19; DB 4; Length 62;
 Best Local Similarity 100.0%; Pred. No. 2.6e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 ACGV 4
 ||||
 Db 17 ACGV 20

RESULT 163

ABM60846
 ID ABM60846 standard; protein; 62 AA.

AC ABM60846;

DT 20-OCT-2003 (first entry)

DE Propionibacterium acnes predicted ORF-encoded polypeptide #25522.

XX Acne vulgaris; antiseborrheic; dermatological; antibacterial;
 KM immunostimulant; immune response; vaccine.

XX Propionibacterium acnes.

XX WO200303515-A1.

XX 24-APR-2003.

XX 11-OCT-2002; 2002WO-US032727.

XX 15-OCT-2001; 2001US-00978825.

XX (CORI-) CORIXA CORP.

XX Mitcham JL, Skeiky YAM, Persing DH, Bhatia A, Maisonneuve JL;

XX Zhang Y, Wang S, Jen S, Lodes MJ, Benson DR, Jones R, Carter D;

XX Barch B, Vallieve-Douglas J;

XX WPI; 2003-381789/36.

XX N-PSDB; ACF64570.

XX Example 1; SEQ ID NO 25522; 1481pp; English.

CC The invention relates to an isolated polynucleotide (ACF64435-ACF64733)
 CC encoding a Propionibacterium acnes protein. The invention also relates to
 CC polypeptides encoded by the polynucleotides (ABM35624-ABM64536) and to
 CC immunogenic fragments of *P. acnes* polypeptides. The invention
 CC additionally encompasses expression vectors and host cells comprising a
 CC polynucleotide of the invention; antibodies against polypeptides of the
 CC invention; fusion proteins comprising a polypeptide of the invention; a
 CC method for stimulating an immune response specific for a *P. acnes*
 CC polypeptide and an isolated T cell population comprising T cells prepared
 CC via this method; a vaccine composition (comprising *P. acnes* polypeptides,
 CC polynucleotides, antibodies, fusion proteins, T cell populations, or
 CC antigen-presenting cells that express the polypeptide); a method and kit

CC for detecting or determining the presence or absence of *P. acnes* in a
CC patient; and a method for inhibiting the development of *P. acnes* in a
CC patient. The *P. acnes* polypeptides, polynucleotides, antibodies, fusion
CC proteins, T cell populations or antigen-presenting cells that express the
CC polypeptides are useful for diagnosing, preventing or treating *acne*
CC vulgaris, or for stimulating an immune response specific for a *P. acnes*
CC protein. The polynucleotides can also be used as probes or primers for
CC nucleic acid hybridisation. The vaccine composition is useful for the
CC stimulation of an immune response against *P. acnes*, or for treating *acne*,
CC and the kit is useful for performing a diagnostic assay. The present
CC sequence represents a polypeptide predicted to be encoded by an ORF (open
CC reading frame) contained within the *P. acnes* polynucleotides of the
CC invention. Note: The sequence data for this patent did not form part of
CC the printed specification, but was obtained in electronic format directly
CC from WIPO at [ftp.wipo.int/pub/published_pct_sequences](http://wipo.int/pub/published_pct_sequences)

XX Sequence 62 AA;

Query Match 100.0%; Score 19; DB 6; Length 62;
Best Local Similarity 100.0%; Pred. No. 2.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 AOGV 4
17 AOGV 20
Db

RESULT 164

AB062014
ID AB062014 standard; protein; 62 AA.

XX ABO62014;

XX 29-JUL-2004 (first entry)

XX Klebsiella pneumoniae polypeptide segid 8531.

XX Recombinant expression vector; transcription regulatory element;

XX Klebsiella pneumoniae protein; antibacterial; Vaccine.

XX Klebsiella pneumoniae.

XX US6610836-B1.

XX 26-AUG-2003.

XX 27-JAN-2000; 2000US-00489039.

XX 29-JAN-1999; 99US-0117747P.

XX (GENO-) GENOME THERAPEUTICS CORP.

XX Breton GL, Osborne M;

XX WPI; 2003-895346/82.

XX N-PSDB; ACH95565.

XX New nucleic acid encoding a Klebsiella pneumoniae polypeptide, useful for

XX preparing a vaccine composition against Klebsiella pneumoniae.

XX Disclosure; SEQ ID NO 8531; 932P; English.

XX The invention describes a new isolated nucleic acid encoding a Klebsiella

XX pneumoniae polypeptide. Also described are: a recombinant expression

XX vector comprising the nucleic acid, operably linked to a transcription

XX regulatory element; and a cell comprising the recombinant expression

XX vector. The nucleic acid is useful for preparing a vaccine composition

XX against Klebsiella pneumoniae. This is the amino acid sequence of a

XX Klebsiella pneumoniae polypeptide of the invention

XX Sequence 62 AA;

Query Match 100.0%; Score 19; DB 7; Length 62;

Best Local Similarity 100.0%; Pred. No. 2.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AOGV 4
11 AOGV 14
Db

RESULT 165

ADY23472
ID ADY23472 standard; protein; 62 AA.

XX ADY23472;

XX 21-APR-2005 (first entry)

XX Plant full length insert polypeptide segid 71256.

XX plant protectant; plant growth regulator; gene therapy; plant;

XX recombinant DNA construct; physical array; plant breeding marker;

XX cold tolerance; heat tolerance; drought tolerance; herbicide tolerance;

XX extreme osmotic condition; pathogen tolerance; pest tolerance;

XX growth rate; cell cycle pathway; disease resistance;

XX galactomannan production; lignin production; plant growth regulator;

XX yield; plant growth; plant development; seed oil; protein yield;

XX protein content.

XX Unidentified.

XX US2004034888-A1.

XX 19-FEB-2004.

XX 28-APR-2003; 2003US-00425114.

XX 06-MAY-1999; 99US-00304517.

XX 05-NOV-2001; 2001US-00985678.

XX (LIU/J) LIU J.

XX (ZHOU/) ZHOU Y.

XX (KOVA/) KOVALIC D K.

XX (SCRE/) SCREEN S E.

XX (TABA/) TABASKA J E.

XX (CAOY/) CAO Y.

XX Liu J, Zhou Y, Kovalic DK, Screen SR, Tabaska JE, Cao Y;

XX WPI; 2004-180133/17.

XX Claim 1; SEQ ID NO 71256; 15pp; English.

XX The invention describes a recombinant DNA construct comprising a

XX polynucleotide consisting of a sequence encoding an amino acid sequence

XX available in electronic form from the US patent office at

XX ftp.segdata.uspto.gov/sequence.html?docid:2004034888. The polynucleotide

XX of the invention are also useful in physical arrays of molecules and as

XX plant breeding markers. The recombinant DNA construct is useful for

XX improving plant tolerance to cold, heat, drought, herbicides, extreme

XX osmotic conditions, pathogens or pests, for manipulating growth rate in

XX plant cells by modification of the cell cycle pathway, for conferring

XX increased resistance to plant disease, for producing galactomannan,

XX lignin or plant growth regulators, for increasing the rate of homologous

XX recombination in plants, for improving yield by modification of

XX photosynthesis or carbohydrate, nitrogen or phosphorus use and/or uptake

XX or by providing improved plant growth and development under at least one

XX stress condition or for modifying seed oil or protein yield and/or

XX content. This is the amino acid sequence of a plant full length insert

XX polypeptide that can be used in the recombinant DNA construct of the

CC Invention.
XX Sequence 62 AA;
SQ Query Match 100.0%; Score 19; DB 8; Length 62;
Best Local Similarity 100.0%; Pred. No. 2.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ACQV 4
Db 13 ACQV 16
RESULT 166
AAG26814
ID AAG26814 standard; protein; 63 AA.
XX
AC AAG26814;
XX
DT 17-OCT-2000 (first entry)
XX
DE Zea mays protein fragment SEQ ID NO: 31409.
XX
KW Protein identification; signal transduction pathway; metabolic pathway;
KM hybridisation assay; genetic mapping; gene expression control; promoter;
KM termination sequence; corn.
OS Zea mays subsp. mays.
XX
PN BP1033405-A2.
XX
PD 06-SEP-2000.
XX
PF 25-FEB-2000; 2000EP-00301439.
XX
XX 25-FEB-1999; 99US-0121825P.
PR 05-MAR-1999; 99US-0123180P.
PR 09-MAR-1999; 99US-0123548P.
PR 23-MAR-1999; 99US-0125788P.
PR 25-MAR-1999; 99US-0126264P.
PR 29-MAR-1999; 99US-0126785P.
PR 01-APR-1999; 99US-0127462P.
PR 06-APR-1999; 99US-0128234P.
PR 08-APR-1999; 99US-0128714P.
PR 16-APR-1999; 99US-0129845P.
PR 19-APR-1999; 99US-0130077P.
PR 21-APR-1999; 99US-0130449P.
PR 23-APR-1999; 99US-0130510P.
PR 23-APR-1999; 99US-0130891P.
PR 28-APR-1999; 99US-0131449P.
PR 30-APR-1999; 99US-0132048P.
PR 30-APR-1999; 99US-0132407P.
PR 04-MAY-1999; 99US-0132464P.
PR 05-MAY-1999; 99US-0132485P.
PR 06-MAY-1999; 99US-0132486P.
PR 06-MAY-1999; 99US-0132487P.
PR 07-MAY-1999; 99US-0132863P.
PR 11-MAY-1999; 99US-0134256P.
PR 14-MAY-1999; 99US-0134218P.
PR 14-MAY-1999; 99US-0134219P.
PR 14-MAY-1999; 99US-0134221P.
PR 14-MAY-1999; 99US-0134370P.
PR 18-MAY-1999; 99US-0134768P.
PR 19-MAY-1999; 99US-0134941P.
PR 20-MAY-1999; 99US-0135114P.
PR 21-MAY-1999; 99US-0135353P.
PR 24-MAY-1999; 99US-0135629P.
PR 25-MAY-1999; 99US-0136021P.
PR 27-MAY-1999; 99US-0136382P.
PR 28-MAY-1999; 99US-0136782P.
PR 01-JUN-1999; 99US-0137222P.
PR 03-JUN-1999; 99US-0137528P.
PR 04-JUN-1999; 99US-0137502P.

PR 07-JUN-1999; 99US-0137724P.
PR 08-JUN-1999; 99US-0138094P.
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PR 10-JUN-1999; 99US-0138847P.
PR 14-JUN-1999; 99US-0139119P.
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PR 18-JUN-1999; 99US-0139454P.
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PR 18-JUN-1999; 99US-0139460P.
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PR 24-JUN-1999; 99US-0140695P.
PR 28-JUN-1999; 99US-0140823P.
PR 29-JUN-1999; 99US-0140991P.
PR 30-JUN-1999; 99US-0141287P.
PR 01-JUL-1999; 99US-0141842P.
PR 01-JUL-1999; 99US-0142154P.
PR 02-JUL-1999; 99US-0142055P.
PR 06-JUL-1999; 99US-0142390P.
PR 08-JUL-1999; 99US-0142803P.
PR 09-JUL-1999; 99US-0142920P.
PR 12-JUL-1999; 99US-0142977P.
PR 13-JUL-1999; 99US-0143542P.
PR 14-JUL-1999; 99US-0143624P.
PR 15-JUL-1999; 99US-0144005P.
PR 16-JUL-1999; 99US-0144085P.
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PR 20-JUL-1999; 99US-0144884P.
PR 21-JUL-1999; 99US-0145086P.
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PR 23-JUL-1999; 99US-0145224P.
PR 26-JUL-1999; 99US-0145276P.
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PR 29-SEP-1999; 99US-0156596P.
PR 04-OCT-1999; 99US-0157117P.
PR 05-OCT-1999; 99US-0157753P.
PR 06-OCT-1999; 99US-0157865P.
PR 07-OCT-1999; 99US-0158029P.
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PR 25-OCT-1999; 99US-0161406P.
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PR 26-OCT-1999; 99US-0161361P.
PR 28-OCT-1999; 99US-0161920P.
PR 28-OCT-1999; 99US-0161920P.
PR 28-OCT-1999; 99US-0161931P.
PR 29-OCT-1999; 99US-0162142P.

Query Match 100.0%; Score 19; DB 3; Length 63;
Best Local Similarity 100.0%; Pred. No. 2,7e+03; Indels 0; Gaps 0;
Matches 4; Conservative 0; Mismatches 0;

QY 1 ACGV 4
DB 53 ACGV 56

RESULT 167

AA083149
ID AA083149 standard; protein, 63 AA.

AA083149;

07-NOV-2001 (first entry)

Human immune/haematopoietic antigen SEQ ID NO:10742.

Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
cytostatic; gene therapy; vaccine; metastasis.

Homo sapiens.

WO200157182-A2.

09-AUG-2001.

17-JAN-2001; 2001WO-US001354.

31-JAN-2000; 2000US-0179065P.

04-FEB-2000; 2000US-0180628P.

24-FEB-2000; 2000US-0184664P.

02-MAR-2000; 2000US-0186350P.

16-MAR-2000; 2000US-0189874P.

17-MAR-2000; 2000US-0190076P.

18-APR-2000; 2000US-0198123P.

19-MAY-2000; 2000US-0205515P.

07-JUN-2000; 2000US-0209467P.

28-JUN-2000; 2000US-0214886P.

30-JUN-2000; 2000US-0215135P.

07-JUL-2000; 2000US-0216647P.

11-JUL-2000; 2000US-0217487P.

14-JUL-2000; 2000US-0217496P.

26-JUL-2000; 2000US-0220963P.

14-AUG-2000; 2000US-0224518P.

14-AUG-2000; 2000US-0224519P.

14-AUG-2000; 2000US-0225213P.

14-AUG-2000; 2000US-0225214P.

14-AUG-2000; 2000US-0225266P.

14-AUG-2000; 2000US-0225267P.

14-AUG-2000; 2000US-0225268P.

14-AUG-2000; 2000US-0225270P.

14-AUG-2000; 2000US-0225447P.

14-AUG-2000; 2000US-0225757P.

14-AUG-2000; 2000US-0225758P.

14-AUG-2000; 2000US-0225759P.

18-AUG-2000; 2000US-0226279P.

22-AUG-2000; 2000US-0226681P.

22-AUG-2000; 2000US-0226868P.

23-AUG-2000; 2000US-0227182P.

30-AUG-2000; 2000US-0228292P.

01-SEP-2000; 2000US-0229287P.

01-SEP-2000; 2000US-0229343P.

01-SEP-2000; 2000US-0229344P.

05-SEP-2000; 2000US-0229345P.

05-SEP-2000; 2000US-0229509P.

06-SEP-2000; 2000US-0230437P.

06-SEP-2000; 2000US-0230438P.

08-SEP-2000; 2000US-0231242P.

08-SEP-2000; 2000US-0231243P.

XX	WO200175067-A2.
XX	
PD	11-OCT-2001.
XX	
PF	30-MAR-2001; 2001WO-US0008631.
XX	
PR	31-MAR-2000; 2000US-00540217.
XX	
PR	23-AUG-2000; 2000US-00649167.
XX	
PA	(HYSE-) HYSEQ INC.
XX	
PI	Dmanac RT, Liu C, Tang YT;
XX	
DR	WPI, 2001-639362/73.
XX	
DR	N-PsDB; AAS90659.
XX	
PT	New isolated polynucleotide and encoded polypeptides, useful in
PT	diagnostics, forensics, gene mapping, identification of mutations
PT	responsible for genetic disorders or other traits and to assess
PT	biodiversity.
XX	
PS	Claim 20; SEQ ID NO 56831; 103pp; English.
XX	
CC	The invention relates to isolated polynucleotide (I) and polypeptide (II)
CC	sequences. (I) is useful as hybridisation probes, polymerase chain
CC	reaction (PCR) primers, oligomers, and for chromosome and gene mapping,
CC	and in recombinant production of (II). The polynucleotides are also used
CC	in diagnostic as expressed sequence tags for identifying expressed
CC	genes. (II) is useful in gene therapy techniques to restore normal
CC	activity of (II) or to treat disease states involving (II). (II) is
CC	useful for generating antibodies against it, detecting or quantitating a
CC	polypeptide in tissue, as molecular weight markers and as a food
CC	supplement. (II) and its binding partners are useful in medical imaging
CC	of sites expressing (II). (I) and (II) are useful for treating disorders
CC	involving aberrant protein expression or biological activity. The
CC	polypeptide and polynucleotide sequences have applications in
CC	diagnostics, forensics, gene mapping, identification of mutations
CC	responsible for genetic disorders or other traits to assess biodiversity
CC	and to produce other types of data and products dependent on DNA and
CC	amino acid sequences. ABG00010-ABG30377 represent novel human diagnostic
CC	amino acid sequences of the invention. Note: The sequence data for this
CC	patent did not appear in the printed specification, but was obtained in
CC	electronic format directly from WIPO at
CC	ftp.wipo.int/pub/published_pct_sequences
XX	
SO	Sequence 63 AA;
	Query Match 100.0%; Score 19; DB 4; Length 63;
	Best Local Similarity 100.0%; Pred. No. 2.7e+03;
	Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY	1 AGGV 4
Db	34 AAGV 37
RESULT 169	
ABO58146	
ID	ABO58146 standard; protein; 63 AA.
XX	
AC	ABO58146;
XX	
DT	29-JUL-2004 (first entry)
XX	
DE	Human genome derived single exon protein #4380.
XX	
XX	Human: gene expression; single exon probe; microarray;
KW	alternative splicing event; genomic alteration.
XX	
OS	Homo sapiens.
XX	
PN	US2003194704-A1.

16-OCT-2003.
03-APR-2002; 2002US-00029386.
03-APR-2002; 2002US-00029386.
(PENN/) PENN S G.
(RANK/) RANK D R.
(HANZ/) HANZEL D K.
Penn SG, Rank DR, Hanzel DK;
WPI; 2004-119264/12.
New human genome-derived single exon nucleic acid probes useful for human gene expression analysis, for identifying or characterizing alternative splicing events, for assessing genomic alterations or as tools for surveying tissues.
Claim 45; SEQ ID NO 31780; 80pp; English.
The invention relates to a nucleic acid probe for measuring human gene expression, comprising any of the 27,400 fully defined nucleotide sequences in the specification, or their complements or fragments, and encoding at least 8 amino acids of any of the 688 amino acid sequences fully defined in the specification. The probe is a single exon probe that hybridises under high stringency conditions to a nucleic acid molecule expressed in human cells or tissues. Also included are a spatially-addressable set of single exon nucleic acid probes for measuring human gene expression (comprising a plurality of single exon nucleic acid probes cited above, where each of the plurality of probes is separately and addressably isolatable or amplifiable from the plurality), a single exon microarray for measuring human gene expression, a method of measuring human gene expression, a vector comprising the single exon probe cited above, an ORF-encoded peptide comprising at least 8 contiguous amino acids of any of the above-mentioned amino acid sequences (optionally with conservative amino acid substitutions), an isolated antibody that binds specifically to a peptide cited above, methods of selling and/or licensing single exon probes or microarrays to a customer desiring to measure gene expression, a method of providing human gene expression data by subcription, and a computer-readable storage medium which contains a database having a plurality of records (each record including data on the expression of a single exon probe cited above. The probe, methods and apparatus are useful in gene expression analysis. The probes may be used as tools for surveying tissues to detect the presence of expressed messages that contain their specific exon, or in constructing genome-derived single exon microarrays. In addition, the probes are used in identifying and characterising alternative splicing events, in detecting and characterising gross alterations in the genomic locus that includes their exon, in assessing smaller genomic alterations, in priming the synthesis of nucleic acids, or in expressing the ORF-encoded peptide. The present sequence is a human single exon probe protein of the invention. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from USPTO at seqdata.uspto.gov/sequence.html?docID=20030194704
Sequence 63 AA;
Query Match 100.0%; Score 19; DB 8; Length 63;
Best Local Similarity 100.0%; Pred. No. 2.7e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0.
1 AAGV 4
||||
41 AAGV 44
RESULT 170
ID ABP29155 standard; protein; 64 AA.
XX

AC ABP29155;
 XX
 DT 02-JUL-2002 (first entry)
 XX
 DE Streptococcus polypeptide SEQ ID NO 7486.
 XX
 KM Streptococcus; GAS; GBS; group B streptococcus; Streptococcus agalactiae;
 XX group A streptococcus; Streptococcus pyogenes; antibacterial;
 KM antiinflammatory; infection; vaccine; meningitis; gene therapy.
 XX
 OS Streptococcus pyogenes.
 XX
 PN MO200234771-A2.
 XX
 PD 02-MAY-2002.
 XX
 PF 29-OCT-2001; 2001WO-GB004789.
 XX
 PR 27-OCT-2000; 2000GB-00026333.
 XX
 PR 24-NOV-2000; 2000GB-00028727.
 PR 07-MAR-2001; 2001GB-00005640.
 XX
 PA (CHIR-) CHIRON SPA.
 PA (GENO-) INST GENOMIC RBS.
 XX
 PI Telford J, Masignani V, Margarit Y Rosi, Grandi G, Fraser C,
 PI Tectelin H;
 XX
 DR WPI; 2002-352536/38.
 DR N-PSDB; ABN69786.
 XX
 PT New Streptococcus protein for the treatment or prevention of infection or
 PT disease caused by Streptococcus bacteri, such as meningitis, and for
 PT detecting a compound that binds to the protein.
 XX
 PS Claim 1; Page 3892; 4525pp; English.
 XX
 CC The invention relates to a protein (ABP25413-ABP30895) from group B
 CC streptococcus/GBS (Streptococcus agalactiae) or group A streptococcus/GAS
 CC (Streptococcus pyogenes), comprising one of 5483 sequences (S1), given in
 CC the specification. The proteins have antibacterial and antiinflammatory
 CC activity. (1), nucleic acids encoding (1), ABN6044-ABN71526 and
 CC antibodies that bind (1) are used in the manufacture of medicaments for
 CC the treatment or prevention of infection or disease caused by
 CC Streptococcus bacteria, particularly S. agalactiae and S. pyogenes.
 CC Nucleic acids encoding (1) are used to detect Streptococcus in a
 CC biological sample. (1) is used to determine whether a compound binds to
 CC (1). A composition comprising (1) or a nucleic acid encoding (1), may be
 CC used as a vaccine or diagnostic composition. The disease caused by
 CC Streptococcus that is prevented or treated may be meningitis. Nucleic
 CC acid encoding (1) may be used to recombinantly produce (1) and may be
 CC used in gene therapy. Antibodies to (1) are used for affinity
 CC chromatography, immunoassays, and distinguishing/identifying
 CC Streptococcus proteins
 XX
 SQ Sequence 64 AA;
 Query Match 100.0%; Score 19; DB 5; Length 64;
 Best Local Similarity 100.0%; Pred. NO. 2.7e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 AAGV 4
 ||||
 DB 30 AAGV 33
 ||||
 RESULT 171
 ID AAG02408 standard; protein; 65 AA.
 XX
 AC AAG02408;
 XX
 DT 06-OCT-2000 (first entry)

XX
 DE Human secreted protein, SEQ ID NO: 6489.
 XX
 KM Human; 5' EST; expressed sequence tag; secreted protein; cDNA isolation;
 KM gene therapy; chromosome mapping.
 XX
 OS Homo sapiens.
 XX
 PN EP1033401-A2.
 XX
 PD 06-SEP-2000.
 XX
 PF 21-FEB-2000; 2000EP-00200610.
 XX
 PR 26-FEB-1999; 99US-0122487P.
 XX
 PA (GEST) GENSET.
 XX
 PI Dumas Milne Edwards J, Duclert A, Giordano J;
 XX
 DR WPI; 2000-500381/45.
 DR N-PSDB; AAC02414.
 XX
 PT New nucleic acid that is a 5' expressed sequence tag (5' EST) for
 PT obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for
 PT diagnostic, forensic, gene therapy and chromosome mapping procedures.
 XX
 PS Claim 13; SEQ ID NO 6489; 71pp + Sequence Listing; English.
 XX
 CC The present sequence is a polypeptide encoded by one of a large number of
 CC 5' ESTs derived from mRNAs encoding secreted proteins. The 5' ESTs were
 CC prepared from total human RNAs or polyA+ RNAs derived from 30 different
 CC tissues. EST sequences usually correspond mainly to the 3' untranslated
 CC region (UTR) of the mRNA because they are often obtained from oligo-dT
 CC primed cDNA libraries. Such ESTs are not well suited for isolating cDNA
 CC sequences derived from the 5' ends of mRNAs and even in those cases where
 CC longer cDNA sequences have been obtained, the full 5' UTR is rarely
 CC included. 5' ESTs are derived from mRNAs with intact 5' ends and can
 CC therefore be used to obtain full length cDNAs and genomic DNAs. 5' ESTs
 CC are also used in diagnostic, forensic, gene therapy and chromosome
 CC mapping procedures. They are used to obtain upstream regulatory sequences
 CC and to design expression and secretion vectors
 XX
 SQ Sequence 65 AA;
 Query Match 100.0%; Score 19; DB 3; Length 65;
 Best Local Similarity 100.0%; Pred. NO. 2.7e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 AAGV 4
 ||||
 DB 48 AAGV 51
 ||||
 RESULT 172
 ID AAG07706 standard; protein; 65 AA.
 XX
 AC AAG07706;
 XX
 DT 17-OCT-2000 (first entry)
 XX
 DE Arabidopsis thaliana protein fragment SEQ ID NO: 4960.
 XX
 KM Protein identification; signal transduction pathway; metabolic pathway;
 KM hybridisation assay; genetic mapping; gene expression control; promoter;
 KM termination sequence.
 XX
 OS Arabidopsis thaliana.
 XX
 PN EP1033405-A2.
 XX
 PD 06-SEP-2000.

XX 25-FEB-2000; 2000EP-00301439.
PF
XX 25-FEB-1999; 99US-0121825P.
PR 05-MAR-1999; 99US-0123180P.
PR 09-MAR-1999; 99US-0123548P.
PR 23-MAR-1999; 99US-0125788P.
PR 25-MAR-1999; 99US-0126264P.
PR 29-MAR-1999; 99US-0126785P.
PR 01-APR-1999; 99US-0127462P.
PR 06-APR-1999; 99US-0128234P.
PR 16-APR-1999; 99US-0128714P.
PR 19-APR-1999; 99US-0129845P.
PR 21-APR-1999; 99US-0130077P.
PR 23-APR-1999; 99US-0130444P.
PR 28-APR-1999; 99US-0130891P.
PR 30-APR-1999; 99US-0131449P.
PR 04-MAY-1999; 99US-0132048P.
PR 04-MAY-1999; 99US-0132407P.
PR 04-MAY-1999; 99US-0132484P.
PR 05-MAY-1999; 99US-0132485P.
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PR 25-MAY-1999; 99US-0136021P.
PR 27-MAY-1999; 99US-0136392P.
PR 28-MAY-1999; 99US-0136782P.
PR 01-JUN-1999; 99US-0137222P.
PR 03-JUN-1999; 99US-0137528P.
PR 04-JUN-1999; 99US-0137502P.
PR 07-JUN-1999; 99US-0137724P.
PR 08-JUN-1999; 99US-0138094P.
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PR 14-JUN-1999; 99US-0139119P.
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PR 18-JUN-1999; 99US-0139455P.
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PR 18-JUN-1999; 99US-0139461P.
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PR 18-JUN-1999; 99US-0139763P.
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PR 23-JUN-1999; 99US-0140354P.
PR 24-JUN-1999; 99US-0140695P.
PR 28-JUN-1999; 99US-0140823P.
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PR 01-JUL-1999; 99US-0141842P.
PR 01-JUL-1999; 99US-0142154P.
PR 02-JUL-1999; 99US-0142055P.
PR 06-JUL-1999; 99US-0142390P.

PR 08-JUL-1999; 99US-0142803P.
PR 09-JUL-1999; 99US-0142920P.
PR 12-JUL-1999; 99US-0142977P.
PR 13-JUL-1999; 99US-0143542P.
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PR 19-JUL-1999; 99US-0144325P.
PR 19-JUL-1999; 99US-0144331P.
PR 19-JUL-1999; 99US-0144332P.
PR 19-JUL-1999; 99US-0144333P.
PR 19-JUL-1999; 99US-0144334P.
PR 19-JUL-1999; 99US-0144335P.
PR 20-JUL-1999; 99US-0144352P.
PR 20-JUL-1999; 99US-0144632P.
PR 20-JUL-1999; 99US-0144884P.
PR 21-JUL-1999; 99US-0144814P.
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Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 62 AOGV 65

RESULT 173

AAG26813
ID AAG26813 standard; protein: 65 AA.

AC AAG26813;

DT 17-OCT-2000 (first entry)

DE Zea mays protein fragment SEQ ID NO: 31408.

XX Protein identification; signal transduction pathway; metabolic pathway;
KM hybridisation assay; genetic mapping; gene expression control; promoter;
XX termination sequence; corn.

OS Zea mays subsp. mays.

PN EPI033405-A2.

PD 06-SEP-2000.

PF 25-FEB-2000; 2000EP-00301439.

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Best Local Similarity 100.0%; Pred. No. 2.7e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 AOGV 4
Db 55 AOGV 58

RESULT 174
ABO66725
ID ABO66725 standard; protein; 65 AA.
XX
AC ABO66725;
XX
DT 29-JUL-2004 (first entry)
XX
DE Klebsiella pneumoniae polypeptide seqid 13242.
XX
KW Recombinant expression vector; transcription regulatory element;
KW Klebsiella pneumoniae protein; antibacterial; Vaccine.
XX
OS Klebsiella pneumoniae.
XX
PN US6610836-B1.
PD 26-AUG-2003.
XX
PP 27-JAN-2000; 2000US-00489039.
XX
PR 29-JAN-1999; 99US-0117747P.
PA (GENO-) GENOME THERAPEUTICS CORP.
XX
PI Breton GL, Osborne M;
XX
XX WPI; 2003-895346/82.
DR N-PSDB; ABD00296.
XX
PT New nucleic acid encoding a Klebsiella pneumoniae polypeptide, useful for
PT preparing a vaccine composition against Klebsiella pneumoniae.
XX

PS Disclosure; SEQ ID NO 13242; 932pp; English.
XX
CC The invention describes a new isolated nucleic acid encoding a Klebsiella
CC pneumoniae polypeptide. Also described are: a recombinant expression
CC vector comprising the nucleic acid, operably linked to a transcription
CC regulatory element; and a cell comprising the recombinant expression
CC vector. The nucleic acid is useful for preparing a vaccine composition
CC against Klebsiella pneumoniae. This is the amino acid sequence of a
XX Klebsiella pneumoniae polypeptide of the invention
XX
SQ Sequence 65 AA;

Query Match 100.0%; Score 19; DB 7; Length 65;
Best Local Similarity 100.0%; Pred. No. 2.7e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
Db 22 ACGV 25

RESULT 175
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XX AAG07705;
AC
XX 17-OCT-2000 (first entry)
DT
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DE Arabidopsis thaliana protein fragment SEQ ID NO: 4959.
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XX Protein identification; signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
KW termination sequence.
XX
OS Arabidopsis thaliana.
PN EP1033405-A2.
PD
XX 06-SEP-2000.
PF
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PR 15-SEP-1999; 99US-0154018P.
PR 16-SEP-1999; 99US-0154039P.
PR 20-SEP-1999; 99US-0154779P.
PR 22-SEP-1999; 99US-0155139P.
PR 23-SEP-1999; 99US-0155486P.
PR 24-SEP-1999; 99US-0155659P.
PR 26-SEP-1999; 99US-0156458P.
PR 29-SEP-1999; 99US-0156596P.
PR 04-OCT-1999; 99US-0157117P.
PR 05-OCT-1999; 99US-0157753P.
PR 06-OCT-1999; 99US-0157865P.
PR 07-OCT-1999; 99US-0158029P.
PR 08-OCT-1999; 99US-0158232P.
PR 12-OCT-1999; 99US-0158369P.
PR 13-OCT-1999; 99US-0159293P.
PR 13-OCT-1999; 99US-0159294P.
PR 13-OCT-1999; 99US-0159295P.
PR 14-OCT-1999; 99US-0159329P.
PR 14-OCT-1999; 99US-0159330P.
PR 14-OCT-1999; 99US-0159331P.
PR 14-OCT-1999; 99US-0159637P.
PR 14-OCT-1999; 99US-0159638P.
PR 18-OCT-1999; 99US-0159584P.
PR 21-OCT-1999; 99US-0160741P.
PR 21-OCT-1999; 99US-0160767P.
PR 21-OCT-1999; 99US-0160768P.
PR 21-OCT-1999; 99US-0160770P.
PR 21-OCT-1999; 99US-0160814P.
PR 21-OCT-1999; 99US-0160815P.
PR 22-OCT-1999; 99US-0160980P.
PR 22-OCT-1999; 99US-0160981P.
PR 22-OCT-1999; 99US-0160989P.
PR 25-OCT-1999; 99US-0161404P.
PR 25-OCT-1999; 99US-0161405P.
PR 25-OCT-1999; 99US-0161406P.
PR 26-OCT-1999; 99US-0161359P.
PR 26-OCT-1999; 99US-0161360P.
PR 26-OCT-1999; 99US-0161361P.

PR 28-OCT-1999; 99US-0161920P.
PR 28-OCT-1999; 99US-0161922P.
PR 28-OCT-1999; 99US-0161935P.
PR 29-OCT-1999; 99US-0162142P.

Query Match 100.0%; Score 19; DB 3; Length 66;
Best Local Similarity 100.0%; Pred. No. 2, Be+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 Aqv 4
Db 63 Aqv 66

RESULT 176
AAM82556
ID AAM82556 standard; protein; 66 AA.
XX
AC AAM82556;
XX
DT 07-NOV-2001 (first entry)
XX
DE Human immune/haematopoietic antigen SEQ ID NO:10149.
XX
KW Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
KW cytosolic; gene therapy; vaccine; metastasis.
OS Homo sapiens.
XX
PN WO200157182-A2.
XX
PD 09-AUG-2001.
XX
PF 17-JAN-2001; 2001WC-US001354.
XX
PR 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
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PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.
PR 22-AUG-2000; 2000US-0226681P.
PR 22-AUG-2000; 2000US-0226689P.
PR 22-AUG-2000; 2000US-0227182P.
PR 23-AUG-2000; 2000US-0227009P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.

PR 01-SEP-2000; 2000US-0229344P.
 PR 01-SEP-2000; 2000US-0229345P.
 PR 05-SEP-2000; 2000US-0229509P.
 PR 05-SEP-2000; 2000US-0229513P.
 PR 06-SEP-2000; 2000US-0230457P.
 PR 06-SEP-2000; 2000US-0230458P.
 PR 08-SEP-2000; 2000US-0231242P.
 PR 08-SEP-2000; 2000US-0231243P.
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 PR 14-SEP-2000; 2000US-0232400P.
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 PR 21-SEP-2000; 2000US-0234223P.
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 PR 27-SEP-2000; 2000US-0235834P.
 PR 27-SEP-2000; 2000US-0235836P.
 PR 29-SEP-2000; 2000US-0236327P.
 PR 29-SEP-2000; 2000US-0236367P.
 PR 29-SEP-2000; 2000US-0236368P.
 PR 29-SEP-2000; 2000US-0236369P.
 PR 29-SEP-2000; 2000US-0236370P.
 PR 02-OCT-2000; 2000US-0236802P.
 PR 02-OCT-2000; 2000US-0237037P.
 PR 02-OCT-2000; 2000US-0237038P.
 PR 02-OCT-2000; 2000US-0237039P.
 PR 02-OCT-2000; 2000US-0237040P.
 PR 13-OCT-2000; 2000US-0239935P.
 PR 13-OCT-2000; 2000US-0239937P.
 PR 20-OCT-2000; 2000US-0240960P.
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 PR 20-OCT-2000; 2000US-0241785P.
 PR 20-OCT-2000; 2000US-0241786P.
 PR 20-OCT-2000; 2000US-0241787P.
 PR 20-OCT-2000; 2000US-0241808P.
 PR 20-OCT-2000; 2000US-0241809P.
 PR 20-OCT-2000; 2000US-0241826P.
 PR 01-NOV-2000; 2000US-0244617P.
 PR 08-NOV-2000; 2000US-0246474P.
 PR 08-NOV-2000; 2000US-0246475P.
 PR 08-NOV-2000; 2000US-0246476P.
 PR 08-NOV-2000; 2000US-0246477P.
 PR 08-NOV-2000; 2000US-0246478P.
 PR 08-NOV-2000; 2000US-0246523P.
 PR 08-NOV-2000; 2000US-0246524P.
 PR 08-NOV-2000; 2000US-0246525P.
 PR 08-NOV-2000; 2000US-0246526P.
 PR 08-NOV-2000; 2000US-0246527P.
 PR 08-NOV-2000; 2000US-0246528P.
 PR 08-NOV-2000; 2000US-0246532P.
 PR 08-NOV-2000; 2000US-0246609P.
 PR 08-NOV-2000; 2000US-0246610P.
 PR 08-NOV-2000; 2000US-0246611P.
 PR 08-NOV-2000; 2000US-0246613P.
 PR 17-NOV-2000; 2000US-0249207P.
 PR 17-NOV-2000; 2000US-0249208P.
 PR 17-NOV-2000; 2000US-0249209P.
 PR 17-NOV-2000; 2000US-0249210P.
 PR 17-NOV-2000; 2000US-0249211P.
 PR 17-NOV-2000; 2000US-0249212P.
 PR 17-NOV-2000; 2000US-0249213P.

PR 17-NOV-2000; 2000US-0249214P.
 PR 17-NOV-2000; 2000US-0249215P.
 PR 17-NOV-2000; 2000US-0249216P.
 PR 17-NOV-2000; 2000US-0249217P.
 PR 17-NOV-2000; 2000US-0249218P.
 PR 17-NOV-2000; 2000US-0249244P.
 PR 17-NOV-2000; 2000US-0249245P.
 PR 17-NOV-2000; 2000US-0249246P.
 PR 17-NOV-2000; 2000US-0249265P.
 PR 17-NOV-2000; 2000US-0249287P.
 PR 17-NOV-2000; 2000US-0249289P.
 PR 17-NOV-2000; 2000US-0249300P.
 PR 01-DEC-2000; 2000US-0250160P.
 PR 01-DEC-2000; 2000US-0250391P.
 PR 05-DEC-2000; 2000US-0251030P.
 PR 05-DEC-2000; 2000US-0251988P.
 PR 05-DEC-2000; 2000US-0256719P.
 PR 06-DEC-2000; 2000US-0251479P.
 PR 08-DEC-2000; 2000US-0251856P.
 PR 08-DEC-2000; 2000US-0251868P.
 PR 08-DEC-2000; 2000US-0251869P.
 PR 08-DEC-2000; 2000US-0251989P.
 PR 08-DEC-2000; 2000US-0251990P.
 PR 11-DEC-2000; 2000US-0254097P.
 PR 05-JAN-2001; 2001US-0259678P.
 XX
 PA (HUMA-) HUMAN GENOME SCI INC.
 XX
 PI Rosen CA, Barash SC, Ruben SM;
 PT WPI; 2001-483426/52.
 DR N-PSDB; AAK5337.
 XX
 PT Nucleic acids encoding human immune/haematopoietic antigen polypeptides,
 PT useful for preventing, diagnosing and/or treating cancers and metastasis.
 XX
 PS Claim 11; SEQ ID NO 10149; 3071pp + Sequence Listing; English.
 XX
 CC AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)
 CC amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic
 CC activity, and can be used in gene therapy and vaccine production. (I)
 CC proteins and polynucleotides may be used in the prevention, diagnosis and
 CC treatment of diseases associated with inappropriate (I) expression. For
 CC example, they may be used to treat disorders associated with decreased
 CC expression by rectifying mutations or deletions in a patient's genome
 CC that affect the activity of (I) by expressing inactive proteins or to
 CC supplement the patients own production of (I). Additionally, (I)
 CC polynucleotides may be used to produce the secreted (I), by inserting the
 CC nucleic acids into a host cell and culturing the cell to express the
 CC protein. (I) proteins and polynucleotides may be used to prevent,
 CC diagnose and treat immune/haematopoietic-related diseases, especially
 CC cancers and cancer metastases of haematopoietic-derived cells. AAK64703
 CC to AAK87694 represent human immune/haematopoietic antigen genomic
 CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169
 CC represent sequences used in the exemplification of the present invention
 XX
 SQ Sequence 66 AA;
 Query Match 100.0%; Score 19; DB 4; Length 66;
 Best Local Similarity 100.0%; Pred. No. 2.8e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 ACGV 4
 ||||
 Db 52 ACGV 55
 RESULT 177
 AAU53135
 ID AAU53135 standard; protein; 66 AA.
 XX
 AC AAU53135;
 XX

DT 27-FEB-2002 (first entry)
 XX Propionibacterium acnes immunogenic protein #14031.
 XX
 XX SAPHO syndrome; synovitis; acne; pustulosis; hyperostosis; osteomyelitis;
 KW uveitis; endophthalmitis; bone; joint; central nervous system; ELISA;
 KW inflammatory lesion; acne vulgaris; enzyme linked immunosorbent assay;
 KW dermatological; osteopathic; neuroprotectant.
 XX
 XX Propionibacterium acnes.
 OS
 XX
 XX WO200181581-A2.
 PN
 XX
 XX 01-NOV-2001.
 PD
 XX
 XX 20-APR-2001; 2001WO-US012865.
 PF
 XX
 XX 21-APR-2000; 2000US-0199047P.
 PR 02-JUN-2000; 2000US-0208841P.
 PR 07-JUL-2000; 2000US-0216747P.
 PR
 XX
 XX (CORI-) CORIXA CORP.
 PA
 PI Skeiky YAM, Persing DH, Mitcham JL, Wang SS, Bhatia A;
 PI L'maisonmeuve J, Zhang Y, Jen S, Carter D;
 DR WPI; 2001-616774/71.
 DR N-PSDB; AAS59558.
 XX
 XX Propionibacterium acnes polypeptides and nucleic acids useful for
 PT vaccinating against and diagnosing infections, especially useful for
 PT treating acne vulgaris.
 PT
 XX
 XX Example 1; SEQ ID NO 14330; 1069pp; English.
 PS
 XX
 XX Sequences AAU39105-AAU68017 represent Propionibacterium acnes immunogenic
 CC polypeptides. The proteins and their associated DNA sequences are used in
 CC the treatment, prevention and diagnosis of medical conditions caused by
 CC P. acnes. The disorders include SAPHO syndrome (synovitis, acne,
 CC pustulosis, hyperostosis and osteomyelitis), uveitis and endophthalmitis.
 CC P. acnes is also involved in infections of bone, joints and the central
 CC nervous system, however it is particularly involved in the inflammatory
 CC lesions associated with acne vulgaris. A method for detecting the
 CC presence or absence of P. acnes in a patient comprises contacting a
 CC sample with a binding agent that binds to the proteins of the invention
 CC and determining the amount of bound protein in the sample. The
 CC polypeptides may be used as antigens in the production of antibodies
 CC specific for P. acnes proteins. These antibodies can be used to
 CC downregulate expression and activity of P. acnes polypeptides and
 CC therefore treat P. acnes infections. The antibodies may also be used as
 CC diagnostic agents for determining P. acnes presence, for example, by
 CC enzyme linked immunosorbent assay (ELISA). Note: The sequence data for
 CC this patent did not form part of the printed specification, but was
 CC obtained in electronic format directly from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 CC
 CC
 XX
 XX Sequence 66 AA;
 SQ
 XX
 XX Query Match 100.0%; Score 19; DB 4; Length 66;
 XX Best Local Similarity 100.0%; Pred. No. 2.8e+03;
 XX Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 AGGV 4
 XX |||||
 Db 56 AGGV 59
 XX
 XX RESULT 178
 XX ABM49654
 XX ID ABM49654 standard; protein; 66 AA.
 XX
 XX ABM49654;
 XX

DT 20-OCT-2003 (first entry)
 XX
 XX Propionibacterium acnes predicted ORF-encoded polypeptide #14330.
 DE
 XX
 XX Acne vulgaris; antiseborrheic; dermatological; antibacterial;
 KW immunostimulant; immune response; vaccine.
 KW
 XX
 XX Propionibacterium acnes.
 OS
 XX
 XX WO2003033515-A1.
 PN
 XX
 XX 24-APR-2003.
 PD
 XX
 XX 11-OCT-2002; 2002WO-US032727.
 PF
 XX
 XX 15-OCT-2001; 2001US-00978825.
 PR
 XX
 XX (CORI-) CORIXA CORP.
 PA
 PI Mitcham JL, Skeiky YAM, Persing DH, Bhatia A, Maisonneuve JL;
 PI Zhang Y, Wang S, Jen S, Lodes MJ, Benson DR, Jones R, Carter D;
 PI Barth B, Vallieve-Douglas J;
 XX
 XX WPI; 2003-381789/36.
 DR N-PSDB; ACF64487.
 DR
 XX
 XX New Propionibacterium acnes polypeptides and polynucleotides encoding the
 PT polypeptide, useful for diagnosing, preventing or treating acne vulgaris,
 PT or for stimulating an immune response specific for a P. acnes protein.
 PT
 XX
 XX Example 1; SEQ ID NO 14330; 1481pp; English.
 PS
 XX
 XX The invention relates to an isolated polynucleotide (ACF64435-ACF64733)
 CC encoding a Propionibacterium acnes protein. The invention also relates to
 CC polypeptides encoded by the polynucleotides (ABM35624-ABM64536) and to
 CC immunogenic fragments of P. acnes polypeptides. The invention
 CC additionally encompasses expression vectors and host cells comprising a
 CC polynucleotide of the invention; antibodies against polypeptides of the
 CC invention; fusion proteins comprising a polypeptide of the invention; a
 CC method for stimulating an immune response specific for a P. acnes
 CC polypeptide and an isolated T cell population comprising T cells prepared
 CC via this method; a vaccine composition (comprising P. acnes polypeptides,
 CC polynucleotides, antibodies, fusion proteins, T cell populations, or
 CC antigen-presenting cells that express the polypeptide); a method and kit
 CC for detecting or determining the presence or absence of P. acnes in a
 CC patient; and a method for inhibiting the development of P. acnes in a
 CC patient. The P. acnes polypeptides, polynucleotides, antibodies, fusion
 CC proteins, T cell populations or antigen-presenting cells that express the
 CC polypeptides are useful for diagnosing, preventing or treating acne
 CC vulgaris, or for stimulating an immune response specific for a P. acnes
 CC protein. The polynucleotides can also be used as probes or primers for
 CC nucleic acid hybridisation. The vaccine composition is useful for the
 CC stimulation of an immune response against P. acnes, or for treating acne,
 CC and the kit is useful for performing a diagnostic assay. The present
 CC sequence represents a polypeptide predicted to be encoded by an ORF (open
 CC reading frame) contained within the P. acnes polynucleotides of the
 CC invention. Note: The sequence data for this patent did not form part of
 CC the printed specification, but was obtained in electronic format directly
 CC from WIPO at ftp.wipo.int/pub/published_pct_sequences
 CC
 CC
 XX
 XX Sequence 66 AA;
 SQ
 XX
 XX Query Match 100.0%; Score 19; DB 6; Length 66;
 XX Best Local Similarity 100.0%; Pred. No. 2.8e+03;
 XX Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 AGGV 4
 XX |||||
 Db 56 AGGV 59
 XX
 XX RESULT 179
 XX ABB71058

ID	ABB71058	standard; protein; 67 AA.
AC	ABB71058;	
XX		
DT	26-MAR-2002	(first entry)
XX		
DE	Drosophila melanogaster	polypeptide SEQ ID NO 39966.
XX		
KW	Drosophila; developmental biology; cell signalling; insecticide;	
KM	pharmaceutical.	
XX		
OS	Drosophila melanogaster.	
XX		
PD	WO200171042-A2.	
XX		
PD	27-SEP-2001.	
XX		
PF	23-MAR-2001; 2001WO-US009231.	
PR	23-MAR-2000; 2000US-0191637P.	
PR	11-JUL-2000; 2000US-00614150.	
XX		
PA	(PEKE) PE CORP NY.	
XX		
PI	Venter JC, Adams M, Li PWD, Myers EW;	
XX		
DR	WPI; 2001-656860/75.	
DR	N-PSDB; ABL15161.	
XX		
PT	New isolated nucleic acid detection reagent for detecting 1000 or more	
PT	genes from Drosophila and for elucidating cell signaling and cell-cell	
PT	interactions.	
XX		
PS	Disclosure; SEQ ID NO 39966; 21pp + Sequence Listing; English.	
XX		
CC	The invention relates to an isolated nucleic acid detection reagent	
CC	capable of detecting 1000 or more genes from Drosophila. The invention is	
CC	useful in developmental biology and in elucidating cell signalling and	
CC	cell-cell interactions in higher eukaryotes for the development of	
CC	insecticides, therapeutics and pharmaceutical drugs. The invention	
CC	discloses genomic DNA sequences (ABL16176-ABL30511), expressed DNA	
CC	sequences (ABL01840-ABL16175) and the encoded proteins (ABB57737-	
CC	ABB572072). The sequence data for this patent did not form part of the	
CC	printed specification, but was obtained in electronic format directly	
CC	from WIPO at ftp.wipo.int/pub/published_pct_sequences	
XX		
SQ	Sequence 67 AA;	
XX		
Query Match	100.0%;	Score 19;
Best local similarity	100.0%;	DB 4; Length 67;
Matches	4; Conservative 0;	Mismatches 0; Indels 0; Gaps 0;
QY	1 ACGV 4	
Db	9 ACGV 12	
XX		
RESULT 180		
ID	ADU04369	
ID	ADU04369	standard; protein; 67 AA.
XX		
AC	ADU04369;	
XX		
DT	13-JAN-2005	(first entry)
XX		
DE	MHV protein with homology to SARS coronavirus ORF1A.	
XX		
KW	viral infection; virucide; autoimmune disease;	
KM	lymphoproliferative disorder; vaccine; gene therapy.	
XX		
OS	Murine hepatitis virus.	
XX		
IN	WO2004090544-A2.	

XX	21-OCT-2004.
PD	
PF	13-APR-2004; 2004WO-CA000544.
XX	
PR	09-APR-2003; 2003US-0461137P.
PR	30-SEP-2003; 2003US-0506779P.
XX	
PA	(CABL-) CANADIAN BLOOD SERVICES.
XX	
PI	Hu Y, Brown E;
XX	
DR	WPI; 2004-766498/75.
XX	
PT	Characterizing a viral infection in a host, for developing treatment for
PT	severe acute respiratory syndrome-coronavirus (SARS-CoV), by determining
PT	homology profile of a viral-based sequence element with an endogenous
PT	host element.
XX	
PS	Claim 8; Fig 20A, 166pp; English.
XX	
CC	The invention relates to a novel method for characterising a viral
CC	infection in a host. The method comprises identifying at least one viral-
CC	based sequence element in a biological sample obtained from the host,
CC	determining a homology profile of the viral-based sequence element with
CC	at least one endogenous host element and characterising the viral
CC	infection based on the homology profile, where the homology profile is
CC	indicative of a viral behaviour of the viral infection in the host. The
CC	method of the invention demonstrates virucide applications and may be
CC	useful for preparing a medicament for detecting and/or treating a viral
CC	infection or related condition, such as an autoimmune disease e.g. type
CC	II cryoglobulinemia, or lymphoproliferative disorder. The viral
CC	infection may be due to HCV (Hepatitis C virus), HIV or a member of a
CC	Retroviridae, Flaviviridae, Herpesviridae, Papillomaviridae or
CC	Coronaviridae virus family. Treatment of the infection may utilise
CC	vaccine or gene therapy. The target compound of the invention may be
CC	useful for detecting the presence of a virus in a biological sample or
CC	for manufacturing a medicament for treating SARS coronavirus (SARS-CoV)
CC	and/or Human T-lymphotropic virus 1 (HTLV-1) infection. The methods are
CC	further useful for developing treatment regimes to target genotype-
CC	specific viral variants. The current sequence is that of the MHV protein
CC	of the invention within homology to SARS coronavirus ORF1A.
XX	
XX	Sequence 67 AA;
XX	
XX	Query Match 100.0%; Score 19; DB 8; Length 67;
XX	Best Local Similarity 100.0%; Pred. No. 2.8e+03;
XX	Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0.
XX	
QY	1 AAGV 4
DB	38 AAGV 41
XX	
XX	RESULT 181
XX	AAG26016
XX	AAAG26016 standard; protein; 69 AA.
XX	
XX	AAAG26016;
XX	
XX	17-OCT-2000 (first entry)
XX	
DE	Zea mays protein fragment SEQ ID NO: 30312.
XX	
KW	Protein identification; signal transduction pathway; metabolic pathway;
KW	hybridisation assay; genetic mapping; gene expression control; promoter;
KW	termination sequence; corn.
XX	
OS	Zea mays subsp. mays.
XX	
FN	EPI033405-A2.
XX	
PD	06-SEP-2000.

XX 25-FEB-2000; 2000EP-00301439.
PR 25-FEB-1999; 99US-0121822P.
PR 05-MAR-1999; 99US-0123180P.
PR 09-MAR-1999; 99US-0123548P.
PR 23-MAR-1999; 99US-0125788P.
PR 25-MAR-1999; 99US-0126264P.
PR 29-MAR-1999; 99US-0126785P.
PR 01-APR-1999; 99US-0127462P.
PR 06-APR-1999; 99US-0128234P.
PR 16-APR-1999; 99US-0128714P.
PR 19-APR-1999; 99US-0130077P.
PR 21-APR-1999; 99US-0130449P.
PR 23-APR-1999; 99US-0130510P.
PR 28-APR-1999; 99US-0130891P.
PR 30-APR-1999; 99US-0131449P.
PR 04-MAY-1999; 99US-0132407P.
PR 04-MAY-1999; 99US-0132484P.
PR 05-MAY-1999; 99US-0132485P.
PR 06-MAY-1999; 99US-0132486P.
PR 07-MAY-1999; 99US-0132487P.
PR 11-MAY-1999; 99US-0134256P.
PR 14-MAY-1999; 99US-0134218P.
PR 14-MAY-1999; 99US-0134219P.
PR 14-MAY-1999; 99US-0134221P.
PR 14-MAY-1999; 99US-0134370P.
PR 18-MAY-1999; 99US-0134768P.
PR 19-MAY-1999; 99US-0134941P.
PR 20-MAY-1999; 99US-0135124P.
PR 21-MAY-1999; 99US-0135353P.
PR 24-MAY-1999; 99US-0135629P.
PR 25-MAY-1999; 99US-0136021P.
PR 27-MAY-1999; 99US-0136392P.
PR 28-MAY-1999; 99US-0136782P.
PR 01-JUN-1999; 99US-0137222P.
PR 03-JUN-1999; 99US-0137528P.
PR 04-JUN-1999; 99US-0137502P.
PR 07-JUN-1999; 99US-0137724P.
PR 08-JUN-1999; 99US-0138094P.
PR 10-JUN-1999; 99US-0138540P.
PR 10-JUN-1999; 99US-0138847P.
PR 14-JUN-1999; 99US-0139119P.
PR 16-JUN-1999; 99US-0139452P.
PR 17-JUN-1999; 99US-0139453P.
PR 18-JUN-1999; 99US-0139454P.
PR 18-JUN-1999; 99US-0139455P.
PR 18-JUN-1999; 99US-0139456P.
PR 18-JUN-1999; 99US-0139457P.
PR 18-JUN-1999; 99US-0139458P.
PR 18-JUN-1999; 99US-0139459P.
PR 18-JUN-1999; 99US-0139460P.
PR 18-JUN-1999; 99US-0139461P.
PR 18-JUN-1999; 99US-0139462P.
PR 18-JUN-1999; 99US-0139463P.
PR 18-JUN-1999; 99US-0139750P.
PR 18-JUN-1999; 99US-0139763P.
PR 21-JUN-1999; 99US-0139817P.
PR 22-JUN-1999; 99US-0139899P.
PR 23-JUN-1999; 99US-0140353P.
PR 23-JUN-1999; 99US-0140354P.
PR 24-JUN-1999; 99US-0140605P.
PR 28-JUN-1999; 99US-0140823P.
PR 29-JUN-1999; 99US-0140991P.
PR 30-JUN-1999; 99US-0141287P.
PR 01-JUL-1999; 99US-0141842P.
PR 01-JUL-1999; 99US-0142154P.
PR 02-JUL-1999; 99US-0142055P.
PR 06-JUL-1999; 99US-0142390P.

PR 08-JUL-1999; 99US-0142803P.
PR 09-JUL-1999; 99US-0142920P.
PR 12-JUL-1999; 99US-0142977P.
PR 13-JUL-1999; 99US-0143542P.
PR 14-JUL-1999; 99US-0143624P.
PR 15-JUL-1999; 99US-0144005P.
PR 16-JUL-1999; 99US-0144085P.
PR 16-JUL-1999; 99US-0144086P.
PR 19-JUL-1999; 99US-0144325P.
PR 19-JUL-1999; 99US-0144331P.
PR 19-JUL-1999; 99US-0144332P.
PR 19-JUL-1999; 99US-0144333P.
PR 19-JUL-1999; 99US-0144334P.
PR 19-JUL-1999; 99US-0144335P.
PR 20-JUL-1999; 99US-0144352P.
PR 20-JUL-1999; 99US-0144632P.
PR 21-JUL-1999; 99US-0144884P.
PR 21-JUL-1999; 99US-0144814P.
PR 21-JUL-1999; 99US-0145086P.
PR 21-JUL-1999; 99US-0145088P.
PR 22-JUL-1999; 99US-0145085P.
PR 22-JUL-1999; 99US-0145087P.
PR 22-JUL-1999; 99US-0145089P.
PR 23-JUL-1999; 99US-0145192P.
PR 23-JUL-1999; 99US-0145145P.
PR 23-JUL-1999; 99US-0145218P.
PR 23-JUL-1999; 99US-0145224P.
PR 26-JUL-1999; 99US-0145276P.
PR 27-JUL-1999; 99US-0145913P.
PR 27-JUL-1999; 99US-0145918P.
PR 27-JUL-1999; 99US-0145919P.
PR 28-JUL-1999; 99US-0145951P.
PR 02-AUG-1999; 99US-0146386P.
PR 02-AUG-1999; 99US-0146388P.
PR 03-AUG-1999; 99US-0147038P.
PR 04-AUG-1999; 99US-0147204P.
PR 05-AUG-1999; 99US-0147302P.
PR 05-AUG-1999; 99US-0147260P.
PR 06-AUG-1999; 99US-0147303P.
PR 06-AUG-1999; 99US-0147416P.
PR 09-AUG-1999; 99US-0147493P.
PR 09-AUG-1999; 99US-0147935P.
PR 10-AUG-1999; 99US-0148171P.
PR 11-AUG-1999; 99US-0148319P.
PR 12-AUG-1999; 99US-0148341P.
PR 13-AUG-1999; 99US-0148555P.
PR 13-AUG-1999; 99US-0148684P.
PR 16-AUG-1999; 99US-0149368P.
PR 17-AUG-1999; 99US-0149175P.
PR 18-AUG-1999; 99US-0149426P.
PR 20-AUG-1999; 99US-0149722P.
PR 20-AUG-1999; 99US-0149723P.
PR 20-AUG-1999; 99US-0149929P.
PR 23-AUG-1999; 99US-0149902P.
PR 23-AUG-1999; 99US-0149930P.
PR 25-AUG-1999; 99US-0150566P.
PR 26-AUG-1999; 99US-0150884P.
PR 27-AUG-1999; 99US-0151065P.
PR 27-AUG-1999; 99US-0151066P.
PR 27-AUG-1999; 99US-0151080P.
PR 30-AUG-1999; 99US-0151303P.
PR 31-AUG-1999; 99US-0151438P.
PR 01-SEP-1999; 99US-0151930P.
PR 07-SEP-1999; 99US-0152353P.
PR 10-SEP-1999; 99US-0153070P.
PR 13-SEP-1999; 99US-0153758P.
PR 15-SEP-1999; 99US-0154018P.
PR 16-SEP-1999; 99US-0154039P.
PR 20-SEP-1999; 99US-0154779P.
PR 22-SEP-1999; 99US-0155139P.
PR 23-SEP-1999; 99US-0155486P.

XX 31-JAN-1997; 97US-00792013.
 XX (INCY-) INCYTE PHARM INC.
 XX Bandman O, Hawkins PR, Murry LE, Goli SK;
 XX WPI, 2002-163701/21.
 DR N-PSDB; ABK15586, ABK15588.
 XX New human cytokines and encoding polynucleotides, useful for treating,
 PT diagnosing or preventing cancers, inflammation, allograft rejection,
 PT neurodegenerative diseases and conditions affecting growth.
 XX
 PS Claim 1; Fig 1; 34pp; English.
 XX
 XX The invention describes a novel human cytokine, designated NHC (I). (I)
 CC is useful for screening a compound for effectiveness as an agonist or
 CC antagonist and preparing a polyclonal antibody or monoclonal antibody,
 CC useful in a diagnostic test for a condition or a disease associated with
 CC the expression of NHC in a biological sample, by combining the sample
 CC with Ab and detecting the Ab-NHC complex. The sample. The polypeptide and
 CC polynucleotide are useful from diagnosing, treating and preventing
 CC cancers, inflammation (e.g. viral, bacterial, fungal, helminthic or
 CC protozoal infection, trauma, autoimmune diseases such as haemolytic
 CC anaemia, arteriosclerosis, asthma, biliary cirrhosis, cystic fibrosis,
 CC diabetes, glomerulonephritis, myasthenia gravis, osteoporosis,
 CC pancreaticitis, Sjogren's syndrome and scleroderma), allograft rejection,
 CC neurodegenerative diseases (e.g. Alzheimer's disease, amyotrophic lateral
 CC sclerosis, Huntington's disease, Parkinson's disease, epilepsy and Down's
 CC syndrome), and conditions affecting pregnancy, growth and development.
 CC (I) is also useful for stimulating cell proliferation, and thus in ex
 CC vivo therapies involving bone marrow cells, and for regenerating tissues
 CC or organs for transplantation such as kidney, liver, pancreas and spleen.
 CC (I) is also useful in drug screening techniques. This is the amino acid
 CC sequence of novel human cytokine-1 (NHC-1), described in the method of
 CC the invention
 XX
 XX Sequence 69 AA;
 XX SQ
 Query Match 100.0%; Score 19; DB 5; Length 69;
 Best Local Similarity 100.0%; Pred. No. 2.9e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 AQQV 4
 ||||
 Db 5 AQQV 8
 RESULT 184
 ADA21106
 ID ADA21106 standard; protein; 69 AA.
 XX
 AC ADA21106;
 XX
 DT 20-NOV-2003 (first entry)
 XX
 DE Human secreted protein SECP-11 SEQ ID NO:11.
 XX
 XX human, secreted protein; SECP; anti-HIV; anti-allergic; anti-inflammatory;
 KM antianaemic; antiparkinsonian; nootropic; anticonvulsant;
 KM antiarteriosclerotic; antiasthmatic; immunosuppressive; antithyroid;
 KM cyostatic; hepatotropic; dermatological; antidiabetic; nephrotropic;
 KM antigout; thymometric; neuroprotective; osteopathic; antiarthritic;
 KM antiparasitic; antihelminthic; antipruritic; uropathic;
 KM ophthalmological; antineumatic; haemostatic; antibacterial; virucide;
 KM protozoacide; fungicide; gene therapy; cell proliferative disorder;
 KM arteriosclerosis; atherosclerosis; cirrhosis; hepatitis;
 KM paroxysmal nocturnal haemoglobinuria; polycythaemia vera; psoriasis;
 KM primary thrombocytopaenia; cancer; developmental disorder;
 KM renal tubular acidosis; anaemia; mental retardation;
 KM neurological disorder; Alzheimer's disease; Parkinson's disease;

KM epilepsy; autoimmune disorder; inflammatory disorder; AIDS; allergy;
 KM asthma; autoimmune thyroiditis; contact dermatitis; Crohn's disease;
 KM diabetes mellitus; glomerulonephritis; Goodpasture's syndrome; gout;
 KM Graves' disease; Hashimoto's thyroiditis; irritable bowel syndrome;
 KM multiple sclerosis; osteoarthritis; osteoporosis; pancreatitis;
 KM Reiter's syndrome; rheumatoid arthritis; Sjogren's syndrome; uveitis;
 KM infection.
 XX
 OS Homo sapiens.
 XX
 PN WO2003068943-A2.
 XX
 PD 21-AUG-2003.
 XX
 XX 13-FEB-2003; 2003WO-US004712.
 PF
 XX
 XX 13-FEB-2002; 2002US-0357002P.
 PR 06-MAR-2002; 2002US-0362439P.
 PR 19-MAR-2002; 2002US-0366041P.
 XX
 PA (INCY-) INCYTE GENOMICS INC.
 XX
 PI Lehr-Mason PM, Kabie AE, Elliott VS, Margulis JP, Baughn MR;
 PI Hawla NK, Tran UK, Jin P, Tang YT, Zebartadian Y, Swarnaker A;
 PI Hafalia AJA, Cocks BG, Warren BA, Emerling BM, Pearson CT, Chien D;
 PI Peterson DP, Fu GK, Yue H, Jackson AA, Jiang X, Hawkins PR, Lai PG;
 PI Khare R, Lee S, Lee SY, Richardson TW, Chang H;
 DR WPI, 2003-689669/65.
 DR N-PSDB; ADA21157.
 XX
 XX New human secreted proteins and polynucleotides, useful for diagnosing,
 PT treating or preventing autoimmune or inflammatory disorders (e.g. AIDS,
 PT allergy, asthma or anaemia), multiple sclerosis, osteoporosis, cancer or
 PT hepatitis.
 XX
 PS Claim 1; Page 225; 295pp; English.
 XX
 XX The present sequence represents a human secreted protein (I) designated
 CC SECP-11. (I) have anti-HIV, anti-allergic, anti-inflammatory, antianaemic,
 CC antiparkinsonian, nootropic, anticonvulsant, antiarteriosclerotic,
 CC antiasthmatic, immunosuppressive, antithyroid, cyostatic, hepatotropic,
 CC dermatological, antidiabetic, nephrotropic, antigout, thymometric,
 CC neuroprotective, osteopathic, antibacterial, virucide, protozoacide and
 CC antihelminthic, antipruritic, uropathic, ophthalmological,
 CC antineumatic, haemostatic, antibacterial, antiparasitic, antiparasitic,
 CC fungicide activities, and can be used in gene therapy. The human secreted
 CC proteins (SECP), polynucleotides, agonists and antagonists of the present
 CC invention are useful for diagnosing, treating or preventing disorders
 CC associated with aberrant expression of SECP, particularly cell
 CC proliferative disorders (e.g. arteriosclerosis, atherosclerosis,
 CC cirrhosis, hepatitis, paroxysmal nocturnal haemoglobinuria, polycythaemia
 CC vera, psoriasis, primary thrombocytopaenia or cancer), developmental
 CC disorders (e.g. renal tubular acidosis, anaemia or mental retardation),
 CC neurological disorders (e.g. Alzheimer's disease, Parkinson's disease or
 CC epilepsy), autoimmune/inflammatory disorders (e.g. AIDS, allergies,
 CC asthma, autoimmune thyroiditis, contact dermatitis, Crohn's disease,
 CC diabetes mellitus, glomerulonephritis, Goodpasture's syndrome, gout,
 CC Graves' disease, Hashimoto's thyroiditis, irritable bowel syndrome,
 CC multiple sclerosis, osteoarthritis, osteoporosis, pancreatitis, Reiter's
 CC syndrome, rheumatoid arthritis, Sjogren's syndrome, uveitis), or viral,
 CC bacterial, fungal, parasitic, protozoan or helminthic infections. The
 CC SECP and polynucleotides are also useful in assessing the effects of
 CC exogenous compounds on the expression of nucleic acids secreted proteins.
 CC The polynucleotides encoding SECP are useful for creating transgenic
 CC animals to model human disease.
 XX
 SQ Sequence 69 AA;
 XX
 Query Match 100.0%; Score 19; DB 6; Length 69;
 Best Local Similarity 100.0%; Pred. No. 2.9e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AOGV 4
 ||||
 Db 19 AOGV 22

RESULT 185

ID ADA67726 standard; protein; 69 AA.

ADA67726;

AC ADA67726;

DT 20-NOV-2003 (first entry)

XX Novel human cytokine 1, NHC-1.

XX human; cytokine; neurodegenerative disorder; Parkinson's disease;
 KW Alzheimer's disease; allograft rejection; inflammation; infection; viral;
 KW bacterial; fungal; protozoal; autoimmune disease; diabetes;
 KW hemolytic anaemia; arteriosclerosis; asthma; cystic fibrosis;
 KW myasthenia gravis; allergy; osteoporosis; Grave's disease; cancer;
 KW leukaemia; cervical cancer; breast cancer; pregnancy; growth;
 KW development.

OS Homo sapiens.

PN US2003096371-A1.

XX 22-MAY-2003.

PF 19-NOV-2002; 2002US-00300257.

XX 31-JAN-1997; 97US-00792013.

PR 12-FEB-2001; 2001US-00782142.

XX (INCY-) INCYTE GENOMICS INC.

PI Bandman O, Hawkins PR, Murry LB, Goli SK;

XX WPI; 2003-658246/62.

DR N-PSDB; ADA67730.

XX New human cytokines, NHC-1 and NHC-2, and encoding polynucleotides,
 PT useful for diagnosing, preventing, and treating diseases with abnormal
 PT expression or activity of NHC, such as cancer, inflammatory and
 PT neurodegenerative diseases.

PS Claim 1; Fig 1; 35pp; English.

XX The invention relates to an isolated novel human cytokine polypeptide.
 CC The polypeptide or its fragments, and the polynucleotide encoding the
 CC polypeptide are useful in diagnosing, preventing, and treating disorders
 CC associated with an abnormal expression or activity of NHC, such as
 CC neurodegenerative disorders (e.g., Parkinson's disease, Alzheimer's
 CC disease), allograft rejection, inflammation caused by viral, bacterial,
 CC fungal or protozoal infection, autoimmune diseases (e.g., diabetes,
 CC hemolytic anaemia, arteriosclerosis, asthma, cystic fibrosis, myasthenia
 CC gravis, allergies, osteoporosis and Grave's disease), cancers (e.g.
 CC leukaemia, cervical or breast cancer) and conditions affecting
 CC pregnancy, growth and development. The polynucleotides can be used to
 CC create humanised animals or transgenic animals to model human disease.
 CC The present sequence represents the amino acid sequence of novel human
 CC cytokine 1, NHC-1.

XX Sequence 69 AA;

Qy Query Match 100.0%; Score 19; DB 7; Length 69;

Best Local Similarity 100.0%; Pred. No. 2.9e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AOGV 4
 ||||
 Db 5 AOGV 8

RESULT 186
 AAY65387
 ID AAY65387 standard; protein; 71 AA.

XX AAY65387;

DT 01-FEB-2000 (first entry)

XX Human 5' EST related polypeptide SEQ ID NO:1548.

XX Human; 5' EST; expressed sequence tag; secreted protein; diagnosis;
 KW gene therapy; chromosome mapping; upstream regulatory sequence; forensic;
 KW location; development; protein synthesis; stability; regulation;
 KW identification.

OS Homo sapiens.

PN WO9953051-A2.

XX 21-OCT-1999.

PF 09-APR-1999; 99WO-IB000712.

XX 09-APR-1998; 98US-00057719.

PR 28-APR-1998; 98US-00069047.

XX (BEST) GENSET.

PI Dumas Mline Edwards J, Duclert A, Giordano J;

XX WPI; 2000-038446/03.

DR N-PSDB; AAZ43001.

XX Novel secreted protein 5' expressed sequence tag sequences used in
 PT diagnostic, forensic, gene therapy, and chromosome mapping procedures.
 PS Claim 3; Page 816; 837pp; English.

XX AA242265 to AA243075 represent novel 5' expressed sequence tag (EST)
 CC sequences, corresponding to human secreted proteins. AAY64651 to AAY65438
 CC represent the EST-related proteins corresponding to AA242265 to AA243052.
 CC The 5' ESTs can be used for producing secreted human gene products. They
 CC can be used to identify and isolate 5' untranslated regions (UTRs) and
 CC upstream regulatory regions which control the location, development
 CC stage, rate, and quantity of protein synthesis, as well as stability of
 CC mRNA. The ESTs are also useful as probes for chromosome mapping, and to
 CC obtain full length cDNA clones. The ESTs can also be used in forensic
 CC procedures to identify individuals, or in diagnostic procedures to
 CC identify individuals having genetic diseases resulting from abnormal gene
 CC expression. The products may also be used in gene therapy protocols. The
 CC nucleic acids encoding signal peptides can be used for directing
 CC extracellular secretion of a polypeptide or the insertion of a
 CC polypeptide into a membrane, or importing a polypeptide into a cell. The
 CC proteins encoded by the EST sequences may be useful in treating a variety
 CC of human conditions. Secreted proteins have therapeutic value, and the
 CC identification of new secreted proteins is valuable. AA242249 to AA242264
 CC and AAY64644 to AAY64650 represent sequences used in the exemplification
 CC of the present invention

XX Sequence 71 AA;

Qy Query Match 100.0%; Score 19; DB 3; Length 71;

Best Local Similarity 100.0%; Pred. No. 3e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AOGV 4
 ||||
 Db 59 AOGV 62

RESULT 187
 AAB63498

ID AAB63498 standard; protein; 71 AA.
XX AAB63498;
AC
XX
XX 26-MAR-2001 (first entry)
DT
XX
DE Human gastric cancer associated antigen protein sequence SEQ ID NO:860.
XX
XX Human; breast cancer; gastric cancer; prostate cancer; diagnosis;
XX cancer associated antigen; cytostatic; cancer vaccine.
XX
XX Homo sapiens.
OS
XX MO200073801-A2.
PN
XX 07-DEC-2000.
PD
XX
XX 26-MAY-2000; 2000WO-US014749.
PF
XX
XX 28-MAY-1999; 99US-0136526P.
PR
XX 10-SEP-1999; 99US-0153454P.
PR
XX (LUDW-) LUDWIG INST CANCER RES.
PA
XX
PI Obata Y;
XX
XX WPI; 2001-025274/03.
DR
XX
XX Nucleic acids encoding breast, gastric and prostate cancer associated
PT antigen precursors, useful for diagnosing and treating a condition
PT characterized by expression of an abnormal amount of a protein, e.g.
PT cancer.
XX
XX Example 1; Page 589; 799pp; English.
PS
XX AAF22422 to AAF22626, AAF22627 to AAF22773 and AAF22774 to AAF23014
CC represent nucleotide sequences encoding human breast, gastric and
CC prostate cancer associated antigen precursors (CAAP) respectively.
CC AAB63332 to AAB63467, AAB63468 to AAB63721 and AAB63722 to AAB63970
CC represent human breast, gastric and prostate CAAP protein sequence
CC respectively. CAAPs have cytostatic activity and can be used in the
CC production of cancer vaccines. The human CAAP proteins, peptides, nucleic
CC acids or anti-CAAP antibodies are useful for diagnosing and treating a
CC condition characterized by expression of an abnormal amount of a protein,
CC e.g. cancer
XX
XX Sequence 71 AA;
SQ
XX
XX Query Match 100.0%; Score 19; DB 4; Length 71;
Best Local Similarity 100.0%; Pred. No. 3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 AAGV 4
Db 20 AAGV 23

RESULT 188
ADU72951
ID ADU72951 standard; protein; 71 AA.
XX
XX ADU72951;
AC
XX
XX 10-FEB-2005 (first entry)
DT
XX
XX Non-signal peptide-containing polypeptide fragment, SEQ ID NO:1548.
DE
XX
XX Protein secretion; recombinant protein; diagnosis; mapping; forensic;
XX gene therapy.
XX
XX Homo sapiens.
OS
XX
XX US6822072-B1.
PN

XX
PD 23-NOV-2004.
XX
XX
XX 21-DEC-1999; 99US-00471276.
PF
XX
XX 09-APR-1998; 98US-00057719.
PR
XX 28-APR-1998; 98US-00069047.
PR
XX 09-APR-1999; 99WO-1B000712.
XX
XX (GEST) GENSET SA.
XX
XX Edwards JDM, Duclert A, Giordano J;
PI
XX WPI; 2004-812112/80.
DR
XX N-PSDB; ADU72163.
DR
XX
XX New expressed sequence tags and encoded human proteins useful for
PT diagnosing, preventing or treating diseases such as autoimmune disorders,
PT inflammation, wounds or infections, or in forensic or chromosome mapping
PT procedures.
XX
XX
XX Example 15; SEQ ID NO 1548; 72pp; English.
PS
XX
XX The invention relates to an isolated or purified signal peptide
CC consisting of residues 1-16 of ADU72234 (signal peptide given separately
CC as ADU73026) which directs the extracellular secretion of a polypeptide
CC to which it is operably linked. The invention also relates to a method of
CC producing the signal peptide. The invention further discloses: isolated,
CC purified or enriched 5' expressed sequence tags (ESTs), many of which
CC encode all or a part of a secretory signal peptide; polypeptides encoded
CC by these ESTs (EST-related polypeptides); antibodies which recognize the
CC EST-related polypeptides; vectors and host cells comprising EST-related
CC nucleic acids of the invention; an array of ESTs; methods involving the
CC use of signal peptides of the invention to target polypeptides; and
CC methods involving the use of ESTs of the invention, for example, in
CC identifying a promoter in genomic DNA. The EST-encoded signal peptides of
CC the invention are useful for directing the secretion or import of a
CC recombinant polypeptide via the generation of protein fusions comprising
CC such signal peptides. The ESTs, EST-related polypeptides and methods of
CC the invention can be used for forensic procedures, chromosome mapping,
CC diagnostics, and therapeutic procedures, including gene therapy.
CC Sequences ADU72920-ADU72956 represent incomplete polypeptides apparently
CC lacking a signal peptide which are encoded by the 5' ESTs shown in
CC ADU72132-ADU72168. Note: The sequence data for this patent did not form
CC part of the printed specification, but was obtained in electronic format
CC directly from the US patent office at
CC seqdata.uspto.gov/sequence.html?docid=US6822072.
XX
XX
XX Sequence 71 AA;
SQ
XX
XX Query Match 100.0%; Score 19; DB 8; Length 71;
Best Local Similarity 100.0%; Pred. No. 3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 AAGV 4
Db 59 AAGV 62

RESULT 189
ADU73942
ID ADU73942 standard; protein; 71 AA.
XX
XX ADU73942;
AC
XX
XX 28-JUL-2005 (first entry)
DT
XX
XX Human incomplete polypeptide not including a signal peptide.
DE
XX
XX expressed sequence tag; EST; expression; protein secretion; diagnostic;
XX forensic; gene therapy; haplotype mapping.
XX
XX Homo sapiens.
OS

XX US2005106595-A1.
 PN
 XX
 PD 19-MAY-2005.
 XX
 PF 25-AUG-2004; 2004US-00926683.
 XX
 PR 09-APR-1998; 98US-00057719.
 PR 28-APR-1998; 98US-00069047.
 PR 09-APR-1999; 99US-18000712.
 PR 21-DEC-1999; 99US-00471276.
 XX
 PA (GEST) GENSET SA.
 XX
 PI Dumas MEJ, Duclert A, Giordano J;
 XX
 DR WPI; 2005-384300/39.
 DR N-PSDB; AD273154.
 XX
 PT New purified nucleic acid expressing secreted proteins useful in
 PT forensic, gene therapy, and chromosome mapping procedures, and diagnosing
 PT or treating cancer, atherosclerosis and autoimmune diseases, diabetes,
 PT asthma and infections.
 XX
 PS Claim 1; SEQ ID NO 1548; 79pp; English.
 XX
 CC The invention relates to a novel purified nucleic acid (I) comprising any
 CC of (AD272418-AD273205) or (AD273994-AD274016) and their complements; at
 CC least 15 consecutive nucleotides of (I) and their complements; or any of
 CC 788 nucleotide sequences encoding fully defined sequences of 16-255 amino
 CC acids (AD273206-AD273993). The invention discloses 5' EST's derived from
 CC mRNAs encoding secreted proteins. The 5' EST's may be used to obtain
 CC cDNAs and genomic DNAs corresponding to the 5' ESTs. The methods and
 CC compositions of the present invention are useful for expressing secreted
 CC proteins or its portions (claimed) or to obtain antibodies capable of
 CC specifically binding to the secreted proteins, and in diagnostic,
 CC forensic, gene therapy, and chromosome mapping procedures, and for
 CC designing expression vectors and secretion vectors. The present sequence
 CC is used in the exemplification of the invention. Note: The sequence data
 CC for this patent is not represented in the printed specification but is
 CC based on sequence information supplied in electronic format from the
 CC USPTO web site seqdata.uspto.gov/sequence.html; Document ID: 20050106595.
 CC
 XX
 SQ Sequence 71 AA:
 Query Match 100.0%; Score 19; DB 9; Length 71;
 Best Local Similarity 100.0%; Pred. No. 3e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 AOCV 4
 Db 59 AOCV 62
 RESULT 190
 AARS5812
 ID AARS5812 standard; protein; 72 AA.
 XX
 AC AARS5812;
 XX
 DT 16-OCT-2003 (revised)
 DT 25-MAR-2003 (revised)
 DT 14-OCT-1994 (first entry)
 XX
 DE E. coli multiple antibiotic resistance (Mar) enhancer.
 XX
 KM Cloned Mar operon; Mar regulatory region; MarO; MarA; MarR; MarB;
 KM lacZ marker locus; Increased antibiotic sensitivity; Repression of Mar;
 KM Multiple antibiotic resistance operon; Enhancer.
 XX
 OS Escherichia coli; (K12).
 OS
 PN MO9405810-A1.

XX 17-MAR-1994.
 PD
 XX
 PF 27-AUG-1993; 93MO-US008115.
 XX
 PR 28-AUG-1992; 92US-00938085.
 XX
 PA (TUFT) TUFTS COLLEGE.
 XX
 PI Levy SB;
 XX
 DR WPI; 1994-101214/12.
 DR N-PSDB; AAQ58707.
 XX
 PT Predicting antibiotic effectiveness of compositions - by cloning
 PT fragments of the Mar operon, and antimicrobial compositions contg. these
 PT fragments Multiple antibiotic resistance operon.
 XX
 PS Disclosure; Page 31-32; 55pp; English.
 XX
 CC This is an enhancer protein encoded by a wild-type multiple antibiotic
 CC resistance (Mar) operon cloned from E.coli. It is operably linked to the
 CC Mar repressor and activator. This is useful to test antibiotic
 CC effectiveness, and can be used to enhance the effectiveness of known
 CC antimicrobials or render ineffective antimicrobials effective. (Updated
 CC on 25-MAR-2003 to correct PN field.) (Updated on 16-OCT-2003 to
 CC standardise OS field)
 XX
 SQ Sequence 72 AA:
 Query Match 100.0%; Score 19; DB 2; Length 72;
 Best Local Similarity 100.0%; Pred. No. 3.1e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 AOCV 4
 Db 17 AOCV 20
 RESULT 191
 AAW71459
 ID AAW71459 standard; protein; 72 AA.
 XX
 AC AAW71459;
 XX
 DT 25-MAR-2003 (revised)
 DT 07-DEC-1998 (first entry)
 XX
 DE Protein encoded by ORF 72.
 XX
 KM Multiple antibiotic resistance operon; mar; antisense;
 KM bacterial resistance; antibiotic; mar enhancer; marB.
 XX
 OS Escherichia coli.
 OS
 PN USS817793-A.
 XX
 PD 06-OCT-1998.
 XX
 PF 08-APR-1994; 94US-00225480.
 XX
 PR 28-AUG-1992; 92US-00938085.
 XX
 PA (TUFT) TUFTS COLLEGE.
 XX
 PI Levy SB;
 XX
 DR WPI; 1998-556472/47.
 DR N-PSDB; AAV60383.
 XX
 PT DNA encoding activator of multiple antibiotic resistance operon - and
 PT anti-sense molecule for lowering antibiotic resistance of bacteria.
 XX

PS Disclosure; Col 35-36; 22pp; English.
XX
XX The present sequence represents the protein encoded by open reading frame
CC (ORF) 72 of an Escherichia coli multiple antibiotic resistance (mar)
CC operon. ORF 72 encodes the mar enhancer, which is necessary for
CC expression of the full mar phenotype. Antisense molecules directed
CC against the mar operon can be used to lower the resistance of bacteria to
CC antibiotics. (Updated on 25-MAR-2003 to correct PF field.)
XX
SQ Sequence 72 AA;
SQ
Query Match 100.0%; Score 19; DB 2; Length 72;
Best Local Similarity 100.0%; Pred. No. 3.1e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
GY 1 AOGV 4
Db 17 AOGV 20
RESULT 192
AAU07749
ID AAU07749 standard; protein; 72 AA.
XX
XX AAU07749;
XX
DT 04-DEC-2001 (first entry)
XX
XX House dust mite allergenic protein Der p I variant e.
XX
XX House dust mite; allergenic protein; Der p I; Der p II; Der f I;
XX Der f II; antiallergenic; immunostimulant; house dust mite allergy;
XX T-cell epitope; polymorphic variant.
XX
XX Dermatophagoides pteronyssinus.
XX
XX
XX Key Location/Qualifiers
XX Misc-difference 1
XX /note= "The protein is deletion variant where residues 1-
XX 150 of the wild-type mature Der p I have been deleted"
XX
XX US6268491-B1.
XX
XX 31-JUL-2001.
XX
XX 07-JUN-1995; 95US-00484296.
XX
XX 16-OCT-1991; 91US-00777859.
XX 08-MAY-1992; 92US-00881396.
XX 14-APR-1993; 93WO-US003471.
XX 14-APR-1994; 94US-00227772.
XX 19-MAY-1995; 95US-00445307.
XX
XX (IMMU-) IMMUNOLOGIC PHARM CORP.
XX
XX Garman RD, Greenstein JL, Kuo M, Rogers BL, Franzen HM, Chen X;
XX Evans S, Shaked Z;
XX WPI; 2001-549074/61.
XX
XX Peptides comprising T cell groups of the major allergens from
XX Dermatophagoides (house dust mites), useful for treating house dust mite
XX allergy in humans, and for diagnosing sensitivity to house dust mite
XX protein allergens.
XX
XX Disclosure; Fig 22; 158pp; English.
XX
XX The invention relates to an isolated peptide of the major protein
XX allergens of the genus Dermatophagoides, which comprises at least one T
XX cell group of a protein allergen from Der p (DP) I, DP II, Der f (DF) I
XX or DF II. The isolated peptide comprises at least two regions, each
XX region comprising at least one T cell group of a protein allergen of the
XX genus Dermatophagoides. The regions are derived from the same or

CC different protein allergens of the genus Dermatophagoides. The peptides
CC are useful for treating house dust mite allergy in humans. The peptides
CC are also useful for detecting or diagnosing sensitivity to house dust
CC mite protein allergens. The present peptides have similar or enhanced
CC therapeutic properties as the naturally-occurring allergen, but have
CC reduced side effects, and increased solubility and stability. The present
CC sequence represents an allergenic protein from Dermatophagoides from
CC which the T-cell epitope containing peptides are derived, a polymorphic
CC variant of Der p I. Note: The present sequence is not shown in the
CC specification but is derived from the Der p I sequence shown in figure 22
XX
SQ Sequence 72 AA;
SQ
Query Match 100.0%; Score 19; DB 4; Length 72;
Best Local Similarity 100.0%; Pred. No. 3.1e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
GY 1 AOGV 4
Db 30 AOGV 33
RESULT 193
AAM87649
ID AAM87649 standard; protein; 72 AA.
XX
XX AAM87649;
XX
XX 07-NOV-2001 (first entry)
XX
XX
XX Human immune/haematopoietic antigen SEQ ID NO:15242.
XX
XX Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
XX cytostatic; gene therapy; vaccine; metastasis.
XX
XX Homo sapiens.
XX
XX WO200157182-A2.
XX
XX 09-AUG-2001.
XX
XX 17-JAN-2001; 2001WO-US001354.
XX
XX 31-JAN-2000; 2000US-0179065P.
XX 04-FEB-2000; 2000US-0180628P.
XX 24-FEB-2000; 2000US-0184664P.
XX 02-MAR-2000; 2000US-0186350P.
XX 16-MAR-2000; 2000US-0189874P.
XX 17-MAR-2000; 2000US-0190076P.
XX 18-APR-2000; 2000US-0198123P.
XX 19-MAY-2000; 2000US-0205515P.
XX 07-JUN-2000; 2000US-0209467P.
XX 28-JUN-2000; 2000US-0214886P.
XX 30-JUN-2000; 2000US-0215135P.
XX 07-JUL-2000; 2000US-0216647P.
XX 07-JUL-2000; 2000US-0216880P.
XX 11-JUL-2000; 2000US-0217487P.
XX 14-JUL-2000; 2000US-0217496P.
XX 26-JUL-2000; 2000US-0220963P.
XX 26-JUL-2000; 2000US-0220964P.
XX 14-AUG-2000; 2000US-0224518P.
XX 14-AUG-2000; 2000US-0224519P.
XX 14-AUG-2000; 2000US-0225213P.
XX 14-AUG-2000; 2000US-0225214P.
XX 14-AUG-2000; 2000US-0225266P.
XX 14-AUG-2000; 2000US-0225267P.
XX 14-AUG-2000; 2000US-0225268P.
XX 14-AUG-2000; 2000US-0225270P.
XX 14-AUG-2000; 2000US-0225447P.
XX 14-AUG-2000; 2000US-0225757P.
XX 14-AUG-2000; 2000US-0225758P.
XX 14-AUG-2000; 2000US-0225759P.

RESULT 194
AAU43630
ID AAU43630 standard; protein; 72 AA.
XX
AC AAU43630;
XX
DT 27-FEB-2002 (first entry)
XX
DE Propionibacterium acnes immunogenic protein #4526.
XX
KM SAPHO syndrome; synovitis; acne; pustulosis; hypertosis; osteomyelitis;
KM uveitis; endophthalmitis; bone; joint; central nervous system; ELISA;
KM inflammatory lesion; acne vulgaris; enzyme linked immunosorbent assay;
KM dermatological; osteopathic; neuroprotectant.
XX
OS Propionibacterium acnes.
XX
PN W0200181581-A2.
XX
PD 01-NOV-2001.
XX
PF 20-APR-2001; 2001WO-US012865.
XX
PR 21-APR-2000; 2000US-0199047P.
PR 02-JUN-2000; 2000US-0208841P.
PR 07-JUL-2000; 2000US-0216747P.
XX
PA (CORI-) CORIXA CORP.
XX
PI Skelky YAM, Persing DH, Mitcham JL, Wang SS, Bhatia A;
PI L'maisonneuve J, Zhang Y, Jen S, Carter D;
XX
DR WPI: 2001-616774/71.
DR N-PSDB; AAS59521.
XX
PT Propionibacterium acnes polypeptides and nucleic acids useful for
PT vaccinating against and diagnosing infections, especially useful for
PT treating acne vulgaris.
XX
PS Example 1; SEQ ID NO 4825; 1069pp; English.
XX
CC Sequences AAU39105-AAU68017 represent Propionibacterium acnes immunogenic
CC polypeptides. The proteins and their associated DNA sequences are used in
CC the treatment, prevention and diagnosis of medical conditions caused by
CC P. acnes. The disorders include SAPHO syndrome (synovitis, acne,
CC pustulosis, hypertosis and osteomyelitis), uveitis and endophthalmitis.
CC P. acnes is also involved in infections of bone, joints and the central
CC nervous system, however it is particularly involved in the inflammatory
CC lesions associated with acne vulgaris. A method for detecting the
CC presence or absence of P. acnes in a patient comprises contacting a
CC sample with a binding agent that binds to the proteins of the invention
CC and determining the amount of bound protein in the sample. The
CC polypeptides may be used as antigens in the production of antibodies
CC specific for P. acnes proteins. These antibodies can be used to
CC downregulate expression and activity of P. acnes polypeptides and
CC therefore treat P. acnes infections. The antibodies may also be used as
CC diagnostic agents for determining P. acnes presence, for example, by
CC enzyme linked immunosorbent assay (ELISA). Note: The sequence data for
CC this patent did not form part of the printed specification, but was
CC obtained in electronic format directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 72 AA;
XX
Query Match 100.0%; Score 19; DB 4; Length 72;
Best Local Similarity 100.0%; Pred. NO. 3.1e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
1 AGGV 4
51 AGGV 54

RESULT 195
ABU09526
ID ABU09526 standard; protein; 72 AA.
XX
AC ABU09526;
XX
DT 30-JUN-2003 (first entry)
XX
DE E. coli multiple antibiotic resistance operon protein MarB.
XX
KM Multiple antibiotic resistance; Mar; operon; infection; MarB; MarA;
KM ORF157; ORF266; ORF64; antimicrobial.
XX
OS Escherichia coli.
XX
PN US2003013104-A1.
XX
PD 16-JAN-2003.
XX
PF 22-APR-2002; 2002US-00131406.
XX
PR 28-AUG-1992; 92US-00938085.
PR 08-APR-1994; 94US-00225480.
PR 17-JUL-1998; 98US-00118445.
XX
PA (TUFT) UNIV TUFTS.
XX
PI Levy SB;
XX
DR WPI: 2003-401595/38.
DR N-PSDB; AEX95686.
XX
PT Identifying bacterial loci which affect resistance to antibiotic
PT compositions, by binding an activator of bacterial antibiotic resistance
PT operon to bacterial DNA, and assaying for sites on DNA to which activator
PT binds.
XX
PS Claim 84; Page 19; 26pp; English.
XX
CC The invention relates to identifying bacterial loci which affect
CC resistance to antibiotic compositions, involves allowing an activator of
CC a bacterial multiple antibiotic resistance (mar) operon to bind to a
CC bacterial DNA molecule, and assaying for sites on the DNA to which the
CC activator binds. The method alternatively involves introducing within the
CC bacteria an operable nucleotide sequence encoding at least a functional
CC fragment of an activator of a bacterial multiple antibiotic resistance
CC operon, where the fragment of the activator is capable of substantially
CC increasing the expression of a bacterial mar phenotype, and assaying for
CC changes in the levels of expression of the loci within the bacteria.
CC Substitively, the method involves subjecting bacteria to a first set of
CC conditions such that the bacteria express or do not express a mar
CC phenotype, introducing within the bacteria a nucleotide sequence
CC including a marker locus and free of a regulatory region operably joined
CC to the marker locus, permitting the sequence to integrate within a
CC chromosome or at random sites within a chromosome of the bacteria,
CC assaying for expression of the marker locus, subjecting a subset of the
CC bacteria which express or do not express the marker locus to a second set
CC of conditions such that the subset of bacteria do not express or express
CC the phenotype, assaying for bacteria in the subset of bacteria which do
CC not express or express the marker locus under the second set of
CC conditions, and determining the site of integration of the marker locus
CC in the subset of bacteria which express the marker locus under the first
CC set of conditions and which express or do not express the marker locus
CC under the second set of conditions. The method is useful for identifying
CC bacterial loci which affect resistance to antibiotic compositions. An
CC antibiotic composition is useful for inhibiting the growth of bacteria
CC (e.g. a bacteria causing an infection), by exposing the bacteria to a
CC composition including an amount of an antibiotic composition and an
CC amount of substance which substantially decreases the expression of a mar
CC phenotype by the bacteria. The substance is a nucleotide sequence
CC comprising at least a functional fragment of a repressor locus of a

CC bacterial mar operon operably joined to a regulatory region such that the
 CC expression of the repressor locus is substantially dependent upon the
 CC regulatory region and the sequence is free from operable sequences
 CC encoding an activator of a bacterial mar operon. The substance is a
 CC nucleotide sequence having substantial homology to at least a fragment of
 CC an activator locus of a bacterial multiple resistance operon and is an
 CC inhibitor of the activity of an activator of a bacterial mar operon. The
 CC E. coli mar operon encodes the MarR, MarB, MarA, ORF157, ORF266 and ORF64
 CC proteins. The present sequence is the MarB protein

XX
 SQ Sequence 72 AA;

Query Match 100.0%; Score 19; DB 6; Length 72;
 Best Local Similarity 100.0%; Pred. No. 3.1e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCV 4
 17 AGCV 20

Db

RESULT 196
 AEM40149
 ID AEM40149 standard; protein; 72 AA.
 XX
 AC AEM40149;
 XX
 DT 20-OCT-2003 (first entry)
 XX
 DE Propionibacterium acnes predicted ORF-encoded polypeptide #4825.
 XX
 KM Acne vulgaris; antiseporotheic; dermatological; antibacterial;
 KM immunostimulant; immune response; vaccine.
 XX
 OS Propionibacterium acnes.
 XX
 PN WO2003033515-A1.
 XX
 PD 24-APR-2003.
 XX
 PF 11-OCT-2002; 2002WO-US032727.
 XX
 PR 15-OCT-2001; 2001US-00978825.
 XX
 PA (CORI-) CORIXA CORP.
 XX
 PI Mitcham JL, Skeiky YAM, Persing DH, Bhadia A, Maisonneuve JL;
 PI Zhang Y, Wang S, Jen S, Lodes MJ, Benson DR, Jones R, Carter D;
 PI Barth B, Valiave-Douglas J;
 XX
 DR WPI; 2003-381789/36.
 DR N-PSDB; ACF64450.

XX
 PT New Propionibacterium acnes polypeptides and polynucleotides encoding the
 PT polypeptide, useful for diagnosing, preventing or treating acne vulgaris,
 PT or for stimulating an immune response specific for a P. acnes protein.

XX
 Example 1; SEQ ID NO 4825; 1481bp; English.

XX
 PS The invention relates to an isolated polynucleotide (ACF64435-ACF64733)
 CC encoding a Propionibacterium acnes protein. The invention also relates to
 CC polypeptides encoded by the polynucleotides (ABM55624-ABM64536) and to
 CC immunogenic fragments of P. acnes polypeptides. The invention
 CC additionally encompasses expression vectors and host cells comprising a
 CC polynucleotide of the invention; antibodies against polypeptides of the
 CC invention; fusion proteins comprising a polypeptide of the invention; a
 CC method for stimulating an immune response specific for a P. acnes
 CC polypeptide and an isolated T cell population comprising T cells prepared
 CC via this method; a vaccine composition (comprising P. acnes polypeptides,
 CC polynucleotides, antibodies, fusion proteins, T cell populations, or
 CC antigen-presenting cells that express the polypeptide); a method and kit
 CC for detecting or determining the presence or absence of P. acnes in a
 CC patient; and a method for inhibiting the development of P. acnes in a

CC patient. The P. acnes polypeptides, polynucleotides, antibodies, fusion
 CC proteins, T cell populations or antigen-presenting cells that express the
 CC polypeptides are useful for diagnosing, preventing or treating acne
 CC vulgaris, or for stimulating an immune response specific for a P. acnes
 CC protein. The polynucleotides can also be used as probes or primers for
 CC nucleic acid hybridisation. The vaccine composition is useful for the
 CC stimulation of an immune response against P. acnes, or for treating acne,
 CC and the kit is useful for performing a diagnostic assay. The present
 CC sequence represents a polypeptide predicted to be encoded by an ORF (open
 CC reading frame) contained within the P. acnes polynucleotides of the
 CC invention. Note: The sequence data for this patent did not form part of
 CC the printed specification, but was obtained in electronic format directly
 CC from WIPO at ftp.wipo.int/pub/published_pct_sequences

XX
 SQ Sequence 72 AA;

Query Match 100.0%; Score 19; DB 6; Length 72;
 Best Local Similarity 100.0%; Pred. No. 3.1e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCV 4
 51 AGCV 54

Db

RESULT 197
 AEA32550
 ID AEA32550 standard; protein; 72 AA.
 XX
 AC AEA32550;
 XX
 DT 25-AUG-2005 (first entry)
 XX
 DE marc protein, SEQ ID 5.
 XX
 KM Multidrug-resistance; antibiotic-resistance; operon.
 XX
 OS Escherichia coli.
 XX
 PN US2005136460-A1.
 XX
 PD 23-JUN-2005.
 XX
 PF 15-NOV-2004; 2004US-00989992.
 XX
 PR 28-AUG-1992; 92US-00938085.
 PR 08-APR-1994; 94US-00225480.
 PR 17-JUL-1998; 98US-00118445.
 PR 22-APR-2002; 2002US-00131406.
 XX
 PA (LEVY/) LEVY S B.
 XX
 PT Levy SB;
 XX
 DR WPI; 2005-457506/46.
 DR N-PSDB; AEA32545.

XX
 PT Method for predicting antibiotic effectiveness of a composition comprises
 PT exposing a bacteria to the composition and assaying the effect of the
 PT exposure on the expression of a genetic locus.

XX
 PS Disclosure; SEQ ID NO 6; 23pp; English.

XX
 CC The present invention relates to a method for predicting the antibiotic
 CC effectiveness of a composition (A). The method comprises exposing a
 CC bacteria to (A) and assaying the effect of the exposure on the expression
 CC of a genetic locus, where the expression is regulated in part and
 CC indirectly by at least a functional fragment of a regulatory region of a
 CC bacterial multiple antibiotic resistance (mar) operon within the
 CC bacteria. The present sequence is a protein encoded by the wild-type mar
 CC operon of E. coli which was used to illustrate the invention.

XX
 SQ Sequence 72 AA;

Query Match 100.0%; Score 19; DB 9; Length 72;
 Best Local Similarity 100.0%; Pred. No. 3.1e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AOGV 4
 ||||
 Db 17 AOGV 20

RESULT 198
 ABP04492
 ID ABP04492 standard; protein; 74 AA.
 XX
 AC ABP04492;
 XX
 DT 24-JUN-2002 (first entry)
 XX
 DE Human ORFX protein sequence SEQ ID NO:8966.
 XX
 KW Human; open reading frame; ORFX; gene therapy; cancer; cirrhosis;
 KW hyperproliferative disorder; psoriasis; benign tumour; haemorrhage;
 KW degenerative disorder; osteoarthritis; neurodegenerative disorder;
 KW cardiovascular disease; diabetes mellitus; systemic lupus erythematosus;
 KW hypertension; hypothyroidism; cholesterol ester storage disease;
 KW immune deficiency; immune disorder; infectious disease;
 KW autoimmune disorder; rheumatoid arthritis; autoimmune thyroiditis;
 KW myasthenia gravis.
 OS Homo sapiens.
 PN W0200192523-A2.
 XX
 PD 06-DEC-2001.
 XX
 PF 29-MAY-2001; 2001WO-US010836.
 XX
 PR 30-MAY-2000; 2000US-0206132P.
 PR 29-AUG-2000; 2000US-0228716P.
 XX
 PA (CURA-) CURAGEN CORP.
 PI Shinkets RA, Leach MD;
 DR WPI; 2002-106308/14.
 DR N-PSDB; ABN20244.
 XX
 PT Novel human polypeptides and polynucleotides useful for diagnosing,
 PT preventing and treating cardiovascular disease, neurodegenerative,
 PT hyperproliferative disorders and autoimmune disorders.
 PS Disclosure; SEQ ID NO 8966; 1037pp; English.
 XX
 CC The present invention describes substantially purified human proteins
 CC (referred to as open reading frame, ORFX, where X is 1-11491 (see Table 1
 CC in the specification). ABN15762 to ABN27252 encode the human ORFX
 CC proteins given in ABP0010 to ABP11500. ORFX proteins are useful for
 CC treating or preventing a pathology associated with an ORFX-associated
 CC disorder in humans, and in the manufacture of a medicament for treating a
 CC syndrome associated with ORFX-associated disorder. ORFX polynucleotide
 CC sequences can be used in gene therapy. ORFX sequences can be used in the
 CC treatment of cancer, hyperproliferative disorders, cirrhosis of liver,
 CC psoriasis, benign tumours, keloid, degenerative disorders, haemorrhage,
 CC osteoarthritis, neurodegenerative disorders, disorders related to organ
 CC transplantation, cardiovascular diseases, diabetes mellitus, systemic
 CC lupus erythematosus, hypertension, hypothyroidism, cholesterol ester
 CC storage disease, various immune deficiencies and disorders, infectious
 CC diseases, autoimmune disorders such as multiple sclerosis, rheumatoid
 CC arthritis, autoimmune thyroiditis, myasthenia gravis, graft-versus-host
 CC disease and autoimmune inflammatory eye disease. ORFX proteins are also
 CC useful for treating burns, incisions, ulcers, for treating osteoporosis,
 CC bone degenerative disorders, or periodontal disease, and for gut
 CC protection or regeneration and treatment of lung or liver fibrosis.

CC reperfusion injury in various tissues and conditions resulting from
 CC systemic cytokine damage. N.B. The sequence data for this patent did not
 CC form part of the printed specification, but was obtained in electronic
 CC format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
 XX

SQ Sequence 74 AA;
 Qy 1 AOGV 4
 ||||
 Db 48 AOGV 51

RESULT 199
 ABP32468
 ID ABP32468 standard; protein; 74 AA.
 XX
 AC ABP32468;
 XX
 DT 08-JUL-2002 (first entry)
 XX
 DE Human ORF1441 protein, SEQ ID NO:2882.
 XX
 KW Human; ORF; open reading frame; ORFX; drug screening; diagnosis;
 KW disease monitoring; cytokine; cell proliferation; cell differentiation;
 KW immune modulation; haematopoiesis regulation; tissue growth;
 KW angiogenesis; activin; inhibin; chemotactic; chemokinetic; haemostatic;
 KW thrombolytic; tumour inhibition; bodily characteristics; fertility;
 KW behaviour; cancer; proliferative disorder; neurological disorder;
 KW cardiovascular disease; immune system disorder; organ transplantation;
 KW tissue growth disorder; tissue regeneration disorder; diabetes mellitus;
 KW hypothyroidism; cholesterol ester storage disease; infection; vulnery;
 KW vasotropic; antidiabetic; antidiabetic; cytoskeletal; nocotropic;
 KW neuroprotective; antiatherosclerotic; anticoagulant; thrombolytic;
 KW cardiac; hypotensive; antihypertoid; antiinflammatory; immunomodulator;
 KW dermatological; analgesic; virucide; antibacterial; fungicide.
 OS Homo sapiens.
 PN W0200190366-A2.
 XX
 PD 29-NOV-2001.
 XX
 PF 24-MAY-2001; 2001WO-US017076.
 XX
 PR 24-MAY-2000; 2000US-0206690P.
 XX
 PA (CURA-) CURAGEN CORP.
 PI Leach MD, Shinkets RA;
 DR WPI; 2002-106200/14.
 DR N-PSDB; ABN76494.
 XX
 PT Novel human polypeptides and polynucleotides useful for diagnosing,
 PT preventing and treating cardiovascular disease, neurodegenerative,
 PT hyperproliferative disorders and disorders related to organ
 PT transplantation.
 PS Claim 10; Page 980; 2508pp; English.
 XX
 CC Sequences ABP31028-ABP35561 represent 4534 novel human proteins
 CC designated ORF (open reading frame) 1-4534, and sequences ABN7054-
 CC ABN79587 represent cDNAs encoding them. The invention also encompasses
 CC polypeptides at least 80% identical to the ORF1-ORF4534 (collectively
 CC referred to as ORFX) proteins, polynucleotides at least 85% identical to
 CC the ORFX nucleic acid sequences, vectors and host cells comprising ORFX
 CC polynucleotides, the recombinant production of ORFX proteins, antibodies
 CC specific for ORFX proteins, methods of detecting ORFX polynucleotides and
 CC polypeptides, methods of screening for modulators of ORFX expression or

CC activity, and methods of screening individuals for a predisposition to an
 CC ORFX-associated disorder. The ORFX proteins of the invention have a wide
 CC range of biological activities, such as cytokine, cell proliferation,
 CC cell differentiation, immune modulation, haematopoiesis regulation,
 CC tissue growth, angiogenesis, activin or inhibin activity, chemotactic/
 CC chemokinetic activity, haemostatic activity, thrombolytic activity,
 CC receptor/ligand, antiinflammatory activity, tumour inhibition activity,
 CC and anti-infective activity, and may also be involved in the determination
 CC of bodily characteristics, fertility and behaviour. ORFX proteins,
 CC nucleic acids and antibodies may be used in the treatment of cancers,
 CC other proliferative disorders such as psoriasis and benign tumours,
 CC neurological disorders such as epilepsy and Alzheimer's disease,
 CC cardiovascular diseases, immune system disorders, disorders related to
 CC organ transplantation, disorders of tissue growth and regeneration,
 CC diseases such as diabetes mellitus, hypothyroidism, and cholesterol ester
 CC storage disease, and infectious diseases caused by viral, bacterial,
 CC fungal and other pathogens. ORFX nucleic acids may also be used as a
 CC source of primers and probes, in the detection of ORFX genomic sequences
 CC or transcripts, in the identification and cloning of homologous
 CC sequences, in genetic diagnosis, and in forensic biology. The ORFX
 CC nucleic acids may additionally be used to produce transgenic animals
 CC which may be useful for studying the function and/or activity of ORFX
 CC protein, and in drug screening. The ORFX proteins may also be used as
 CC immunogens to generate specific antibodies, which are useful in the
 CC diagnosis, treatment and monitoring of ORFX-associated diseases

XX Sequence 74 AA;

Query Match 100.0%; Score 19; DB 5; Length 74;
 Best Local Similarity 100.0%; Pred. No. 3.1e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
 ||||
 Db 48 ACGV 51

RESULT 200
 ABP64192
 ID ABP64192 standard; protein; 75 AA.

XX AC ABP64192;

XX DT 04-NOV-2002 (first entry)

XX DE Human ORF562.

XX KM Cytostatic; Cardiant; Anti-allergic; Immunosuppressive; Vulnery;
 XX KM Antiinflammatory; gene therapy; human; ORFX; atherogenic; platelet;
 XX KM human umbilical vein endothelial cell; HUVEC; atherosclerotic plaque;
 XX KM cancer; cardiovascular disease; allergy; autoimmune disease;
 XX KM wound healing; blood coagulation disorder; inflammatory disorder.

OS Homo sapiens.

XX PN US2002082206-A1.

XX PD 27-JUN-2002.

XX PF 30-MAY-2001; 2001US-00867550.

XX PR 30-MAY-2000; 2000US-0208427P.

XX PA (LEAC/) LEACH M D.

XX PA (MEHR/) MEHRABAN F.

XX PA (CONL/) CONLEY P B.

XX PA (TOPP/) TOPPER J N.

XX PA (LAWD/) LAW D.

XX PI Leach MD, Mehraban F, Conley PB, Topper JN, Law D;

XX WP1; 2002-626554/67.

XX DR N-PSDB; ABQ98755.

XX New polypeptide designated ORFX are present in human atherogenic cells
 PT and are useful to prevent and treat ORFX-associated disorders including
 PT cancer, allergy, wound healing or autoimmune, cardiovascular or
 PT inflammatory disease.

PS Claim 10; SEQ ID NO 1124; 78pp; English.

CC The present invention relates to novel human ORFX polypeptides and their
 CC coding sequences (ABP63631-ABP64681 and ABQ98194-ABQ99267). The sequences
 CC were discovered in human atherogenic cells, in particular in platelets
 CC and human umbilical vein endothelial cells (HUVEC) and are expressed in
 CC many other tissues as well. Atherogenic cells are cells which have the
 CC potential to develop atherosclerotic plaques. The ORFX polypeptides and
 CC nucleic acids are useful for treating or preventing a pathological
 CC condition associated with an ORFX-associated disorder, e.g. cancer,
 CC cardiovascular disease, allergy, autoimmune disease, wound healing, blood
 CC coagulation disorders or inflammatory disorders. Note: The sequence data
 CC for this patent did not form part of the printed specification, but was
 CC obtained in electronic format directly from the USPO web site at
 CC seqdata.uspto.gov/sequence.html?DocID=20020082206

XX Sequence 75 AA;

Query Match 100.0%; Score 19; DB 5; Length 75;
 Best Local Similarity 100.0%; Pred. No. 3.2e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
 ||||
 Db 4 ACGV 7

RESULT 201
 AAW72051
 ID AAW72051 standard; protein; 76 AA.

XX AC AAW72051;

XX DT 07-DEC-1998 (first entry)

XX DE HSV-2 strain SB5 Contig ID 38 ORF#1 protein.

XX KM HSV-2 strain SB5; immunological response induction; therapy;
 XX KM antiviral identification; viral protein inhibitor.

OS Herpes simplex virus 2.

XX PN WO9820016-A1.

XX PD 14-MAY-1998.

XX PF 31-OCT-1997; 97WO-US020016.

XX PR 04-NOV-1996; 96US-0030279P.

XX PR 09-JUN-1997; 97US-0049018P.

XX PA (SMIK) SMITHKLINE BEECHAM CORP.

XX PI Basser KM, Chan JY, Dabrowski-Amara CE, Delvecchio AM, Dillon SB;

XX PI Leary JM;

XX DR WP1; 1998-286847/25.

XX DR N-PSDB; AAV62136.

XX PT Herpes simplex virus type-2 sequences - useful in, e.g. prevention and
 XX PT treatment of infection or inducing immunological response in mammal.

XX PS Claim 10; Page 59; 748pp; English.

XX This sequence represents a Herpes simplex virus type-2 (HSV-2) protein
 CC sequence of the invention. This sequence was isolated from a HSV-2 strain
 CC SB5 (deposited as ATCC VR-2546) DNA fragment designated Contig ID 38.

CC Based on homology, this sequence is a minor capsid protein I2. The
CC proteins can be used for the treatment or prevention of disease, to
CC induce an immunological response in a mammal or to identify inhibitors,
CC activators or novel antivirals. Antagonists of the proteins can be used
CC to inhibit a viral polypeptide. The DNA sequence or a vector containing
CC it can also be used to induce an immunological response in a mammal
XX

Sequence 76 AA;

Query Match 100.0%; Score 19; DB 2; Length 76;
Best Local Similarity 100.0%; Pred. No. 3.2e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AGGV 4
|||
Db 6 AGGV 9

RESULT 202

ID ABO56564 standard; protein; 76 AA.

AC ABO56564;

DT 29-JUL-2004 (first entry)

DE Human genome derived single exon protein #2798.

XX Human; gene expression; single exon probe; microarray;

KW alternative splicing event; genomic alteration.

XX Homo sapiens.

XX US2003194704-A1.

XX 16-OCT-2003.

XX 03-APR-2002; 2002US-00029386.

XX 03-APR-2002; 2002US-00029386.

XX (PENN/) PENN S G.

XX (RANK/) RANK D R.

XX (HANZ/) HANZEL D K.

XX Penn SG, Rank DR, Hanzel DK;

XX WPI; 2004-119264/12.

XX New human genome-derived single exon nucleic acid probes useful for human
XX gene expression analysis, for identifying or characterizing alternative
XX splicing events, for assessing genomic alterations or as tools for
XX surveying tissues.

XX Claim 45; SEQ ID NO 30198; 80pp; English.

XX The invention relates to a nucleic acid probe for measuring human gene
XX expression, comprising any of the 27,400 fully defined nucleotide
XX sequences in the specification, or their complements or fragments, and
XX encoding at least 8 amino acids of any of the 6888 amino acid sequences
XX fully defined in the specification. The probe is a single exon probe that
XX hybridizes under high stringency conditions to a nucleic acid molecule
XX expressed in human cells or tissues. Also included are a spatially-
XX addressable set of single exon nucleic acid probes for measuring human
XX gene expression (comprising a plurality of single exon nucleic acid
XX probes cited above, where each of the plurality of probes is separately
XX and addressably isolatable or amplifiable from the plurality), a single
XX exon microarray for measuring human gene expression, a method of
XX measuring human gene expression, a vector comprising the single exon
XX probe cited above, an ORF-encoded peptide comprising at least 8
XX contiguous amino acids of any of the above-mentioned amino acid
XX sequences (optionally with conservative amino acid substitutions), an
XX isolated antibody that binds specifically to a peptide cited above,

CC methode of selling and/or licensing single exon probes or microarrays to
CC a customer desiring to measure gene expression, a method of providing
CC human gene expression data by subscription, and a computer-readable
CC storage medium which contains a database having a plurality of records
CC (each record including data on the expression of a single exon probe
CC cited above. The probe, methods and apparatus are useful in gene
CC expression analysis. The probes may be used as tools for surveying
CC tissues to detect the presence of expressed messages that contain their
CC specific exon, or in constructing genome-derived single exon microarrays.
CC In addition, the probes are used in identifying and characterizing
CC alternative splicing events, in detecting and characterizing gross
CC alterations in the genomic locus that includes their exon, in assessing
CC smaller genomic alterations, in printing the synthesis of nucleic acids,
CC or in expressing the ORF-encoded peptide. The present sequence is a human
CC single exon probe protein of the invention. Note: The sequence data for
CC this patent did not form part of the printed specification, but was
CC obtained in electronic format directly from USPTO at
CC seqdata.uspto.gov/sequence.html?docID=20030194704
XX

Sequence 76 AA;

Query Match 100.0%; Score 19; DB 8; Length 76;
Best Local Similarity 100.0%; Pred. No. 3.2e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AGGV 4
|||
Db 59 AGGV 62

RESULT 203

ID ADL05542 standard; protein; 77 AA.

XX ADL05542;

XX 06-MAY-2004 (first entry)

XX M. catarrhalis protein #1308.

XX Moraxella catarrhalis; infection.

XX Moraxella catarrhalis.

XX US6673910-B1.

XX 06-JAN-2004.

XX 04-APR-2000; 2000US-00540236.

XX 08-APR-1999; 99US-0128416P.

XX (GENO-) GENOME THERAPEUTICS CORP.

XX Breton GL;

XX WPI; 2004-178127/17.

XX N-PSDB; ADL03622.

XX New nucleic acid encoding a Moraxella catarrhalis polypeptide, useful for
XX preparing a composition for diagnosing, preventing or treating infection
XX caused by Moraxella catarrhalis.

XX Disclosure; SEQ ID NO 3228; 429pp; English.

XX The invention relates to an isolated nucleic acid encoding an Moraxella
XX catarrhalis polypeptide. The nucleic acid is useful for preparing a
XX composition for diagnosing, preventing or treating infection caused by
XX Moraxella catarrhalis. The present sequence represents the amino acid
XX sequence of a M. catarrhalis protein.

Sequence 77 AA;

XX

Query Match 100.0%; Score 19; DB 8; Length 77;
Best Local Similarity 100.0%; Pred. No. 3.3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 ACGV 4
|||
DB 47 ACGV 50

RESULT 204

AU59277
ID AU59277 standard; protein; 78 AA.

XX AU59277;

XX 27-FEB-2002 (first entry)

XX Propionibacterium acnes immunogenic protein #20173.

XX SAPHO syndrome; synovitis; acne; pustulosis; hypertosis; osteomyelitis;
XX uveitis; endophthalmitis; bone; joint; central nervous system; ELISA;
XX inflammatory lesion; acne vulgaris; enzyme linked immunosorbent assay;
XX dermatological; osteopathic; neuroprotectant.

XX Propionibacterium acnes.

XX MO200181581-A2.

XX 01-NOV-2001.

XX 20-APR-2001; 2001MO-US012865.

XX 21-APR-2000; 2000US-0199047P.

XX 02-JUN-2000; 2000US-0208841P.

XX 07-JUL-2000; 2000US-0216747P.

XX (CORI-) CORIXA CORP.

XX Shefay YAM, Persing DH, Mitcham JL, Wang SS, Bhatia A;

XX L'alsomneuve J, Zhang Y, Jen S, Carter D;

XX WPI; 2001-616774/71.

XX N-PSDB; AAS59601.

XX Example 1; SEQ ID NO 20472; 1069pp; English.

XX Sequences AU59105-AU568017 represent Propionibacterium acnes immunogenic
XX polypeptides. The proteins and their associated DNA sequences are used in
XX the treatment, prevention and diagnosis of medical conditions caused by
XX P. acnes. The disorders include SAPHO syndrome (synovitis, acne,
XX pustulosis, hypertosis and osteomyelitis), uveitis and endophthalmitis.
XX P. acnes is also involved in infections of bone, joints and the central
XX nervous system, however it is particularly involved in the inflammatory
XX lesions associated with acne vulgaris. A method for detecting the
XX presence or absence of P. acnes in a patient comprises contacting a
XX sample with a binding agent that binds to the proteins of the invention
XX and determining the amount of bound protein in the sample. The
XX polypeptides may be used as antigens in the production of antibodies
XX specific for P. acnes proteins. These antibodies can be used to
XX downregulate expression and activity of P. acnes polypeptides and
XX therefore treat P. acnes infections. The antibodies may also be used as
XX diagnostic agents for determining P. acnes presence, for example, by
XX enzyme linked immunosorbent assay (ELISA). Note: The sequence data for
XX this patent did not form part of the printed specification, but was
XX obtained in electronic format directly from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences

XX Sequence 78 AA;

Query Match 100.0%; Score 19; DB 4; Length 78;
Best Local Similarity 100.0%; Pred. No. 3.3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 ACGV 4
|||
DB 11 ACGV 14

RESULT 205

ABG26469
ID ABG26469 standard; protein; 78 AA.

XX ABG26469;

XX 18-FEB-2002 (first entry)

XX Novel human diagnostic protein #26460.

XX Human; chromosome mapping; gene mapping; gene therapy; forensic;
XX food supplement; medical imaging; diagnostic; genetic disorder.
XX Homo sapiens.

XX MO200175067-A2.

XX 11-OCT-2001.

XX 30-MAR-2001; 2001MO-US008631.

XX 31-MAR-2000; 2000US-00540217.

XX 23-AUG-2000; 2000US-00649167.

XX (HYSE-) HYSEQ INC.

XX Dermanac RT, Liu C, Tang YT;

XX WPI; 2001-639362/73.

XX N-PSDB; AAS90656.

XX New isolated polynucleotide and encoded polypeptides, useful in
XX diagnostics, forensics, gene mapping, identification of mutations
XX responsible for genetic disorders or other traits and to assess
XX biodiversity.

XX Claim 20; SEQ ID NO 56828; 103pp; English.

XX The invention relates to isolated polynucleotide (I) and polypeptide (II)
XX sequences. (I) is useful as hybridisation probes, polymerase chain
XX reaction (PCR) primers, oligomers, and for chromosome and gene mapping,
XX and in recombinant production of (II). The polynucleotides are also used
XX in diagnostics as expressed sequence tags for identifying expressed
XX genes. (I) is useful in gene therapy techniques to restore normal
XX activity of (II) or to treat disease states involving (II). (II) is
XX useful for generating antibodies against it, detecting or quantitating a
XX polypeptide in tissue, as molecular weight markers and as a food
XX supplement. (II) and its binding partners are useful in medical imaging
XX of sites expressing (II). (I) and (II) are useful for treating disorders
XX involving aberrant protein expression or biological activity. The
XX polypeptides and polynucleotide sequences have applications in
XX diagnostics, forensics, gene mapping, identification of mutations
XX and to produce other types of data and products dependent on DNA and
XX amino acid sequences. ABG00010-ABG30377 represent novel human diagnostic
XX amino acid sequences of the invention. Note: The sequence data for this
XX patent did not appear in the printed specification, but was obtained in
XX electronic format directly from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences

XX Sequence 78 AA;

XX Query Match 100.0%; Score 19; DB 4; Length 78;
XX Best Local Similarity 100.0%; Pred. No. 3.3e+03;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
 ||||
 Db 55 AOGV 58

RESULT 206
 ABM55796
 ID ABM55796 standard; protein; 78 AA.
 XX
 AC ABM55796;
 XX
 DT 20-OCT-2003 (first entry)
 DE Propionibacterium acnes predicted ORF-encoded polypeptide #20472.
 XX
 KW Acne vulgaris; antiseborrheic; dermatological; antibacterial;
 KW immunostimulant; immune response; vaccine.
 XX
 OS Propionibacterium acnes.
 XX
 PN WO2003033515-A1.
 XX
 PD 24-APR-2003.
 XX
 PF 11-OCT-2002; 2002WO-US032727.
 XX
 PR 15-OCT-2001; 2001US-00978825.
 XX
 PA (CORI-) CORIXA CORP.
 XX
 PI Mitcham JI, Skeiky YAW, Persing DH, Bhatia A, Maisonneuve JL;
 P1 Zhang Y, Wang S, Jen S, Lodes MJ, Benson DR, Jones R, Carter D;
 P1 Barth B, Valliave-Douglas J;
 XX
 DR WPI: 2003-381789/36.
 DR N-PSDB; ACF64530.
 XX
 PT New Propionibacterium acnes polypeptides and polynucleotides encoding the
 PT polypeptide, useful for diagnosing, preventing or treating acne vulgaris,
 PT or for stimulating an immune response specific for a P. acnes protein.
 XX
 PS Example 1: SEQ ID NO 20472; 1481bp; English.
 XX
 CC The invention relates to an isolated polynucleotide (ACF64435-ACF64733)
 CC encoding a Propionibacterium acnes protein. The invention also relates to
 CC polypeptides encoded by the polynucleotides (ABM35624-ABM64536) and to
 CC immunogenic fragments of P. acnes polypeptides. The invention
 CC additionally encompasses expression vectors and host cells comprising a
 CC polynucleotide of the invention; antibodies against polypeptides of the
 CC invention; fusion proteins comprising a polypeptide of the invention; a
 CC method for stimulating an immune response specific for a P. acnes
 CC polypeptide and an isolated T cell population comprising T cells prepared
 CC via this method; a vaccine composition (comprising P. acnes polypeptides,
 CC polynucleotides, antibodies, fusion proteins, T cell populations, or
 CC antigen-presenting cells that express the polypeptide); a method and kit
 CC for detecting or determining the presence or absence of P. acnes in a
 CC patient; and a method for inhibiting the development of P. acnes in a
 CC patient. The P. acnes polypeptides, polynucleotides, antibodies, fusion
 CC proteins, T cell populations or antigen-presenting cells that express the
 CC polypeptides are useful for diagnosing, preventing or treating acne
 CC vulgaris, or for stimulating an immune response specific for a P. acnes
 CC protein. The polynucleotides can also be used as probes or primers for
 CC nucleic acid hybridisation. The vaccine composition is useful for the
 CC stimulation of an immune response against P. acnes, or for treating acne,
 CC and the kit is useful for performing a diagnostic assay. The present
 CC sequence represents a polypeptide predicted to be encoded by an ORF (open
 CC reading frame) contained within the P. acnes polynucleotides of the
 CC invention. Note: The sequence data for this patent did not form part of
 CC the printed specification, but was obtained in electronic format directly
 CC from WIPO at ftp.wipo.int/pub/published_pcf_sequences

SEQ Sequence 78 AA;

Query Match 100.0%; Score 19; DB 6; Length 78;
 Best Local Similarity 100.0%; Pred. No. 3.3e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
 ||||
 Db 11 AOGV 14

RESULT 207
 ABP01669
 ID ABP01669 standard; protein; 79 AA.
 XX
 AC ABP01669;
 XX
 DT 24-JUN-2002 (first entry)
 DE Human ORFX protein sequence SEQ ID NO:3320.
 XX
 KW Human; open reading frame; ORFX; gene therapy; cancer; cirrhosis;
 KW hyperproliferative disorder; psoriasis; benign tumour; haemorrhage;
 KW degenerative disorder; osteoarthritis; neurodegenerative disorder;
 KW cardiovascular disease; diabetes mellitus; systemic lupus erythematosus;
 KW hypertension; hypothyroidism; cholesterol ester storage disease;
 KW immune deficiency; immune disorder; infectious disease;
 KW autoimmune disorder; rheumatoid arthritis; autoimmune thyroiditis;
 KW myasthenia gravis.
 XX
 OS Homo sapiens.
 XX
 PN WO200192523-A2.
 XX
 PD 06-DEC-2001.
 XX
 PF 29-MAY-2001; 2001WO-US010836.
 XX
 PR 30-MAY-2000; 2000US-0206132P.
 XX
 PR 29-AUG-2000; 2000US-0228716P.
 XX
 PA (CURA-) CURAGEN CORP.
 XX
 PI Shinkets RA, Leach MD;
 P1
 XX
 DR WPI: 2002-106308/14.
 DR N-PSDB; ABN17421.
 XX
 PT Novel human polypeptides and polynucleotides useful for diagnosing,
 PT preventing and treating cardiovascular disease, neurodegenerative,
 PT hyperproliferative disorders and autoimmune disorders.
 XX
 PS Disclosure; SEQ ID NO 3320; 1037bp; English.
 XX
 CC The present invention describes substantially purified human proteins
 CC (referred to as open reading frame, ORFX, where X is 1-11491 (see Table 1
 CC in the specification). ABN15762 to ABN27252 encode the human ORFX
 CC proteins given in ABP00010 to ABP11500. ORFX proteins are useful for
 CC treating or preventing a pathology associated with an ORFX-associated
 CC disorder in humans, and in the manufacture of a medicament for treating a
 CC syndrome associated with ORFX-associated disorder. ORFX polynucleotide
 CC sequences can be used in gene therapy. ORFX sequences can be used in the
 CC treatment of cancer, hyperproliferative disorders, cirrhosis of liver,
 CC psoriasis, benign tumours, keloid, degenerative disorders, haemorrhage,
 CC osteoarthritis, neurodegenerative disorders, disorders related to organ
 CC transplantation, cardiovascular diseases, diabetes mellitus, systemic
 CC lupus erythematosus, hypertension, hypothyroidism, cholesterol ester
 CC storage disease, various immune deficiencies and disorders, infectious
 CC diseases, autoimmune disorders such as multiple sclerosis, rheumatoid
 CC arthritis, autoimmune thyroiditis, myasthenia gravis, graft-versus-host
 CC disease and autoimmune inflammatory eye disease. ORFX proteins are also
 CC useful for treating burns, incisions, ulcers, for treating osteoporosis,
 CC bone degenerative disorders, or periodontal disease, and for gut

CC protection or regeneration and treatment of lung or liver fibrosis;
CC reperfusion injury in various tissues and conditions resulting from
CC systemic cytokine damage. N.B. The sequence data for this patent did not
CC form part of the printed specification, but was obtained in electronic
CC format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
XX

SQ Sequence 79 AA;

Query Match 100.0%; Score 19; DB 5; Length 79;
Best Local Similarity 100.0%; Pred. No. 3,4e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AOCV 4
|||
Db 54 AOCV 57

RESULT 208

AAIG19634

ID AAIG19634 standard; protein; 80 AA.

AC AAIG19634;

DT 17-OCT-2000 (first entry)

DE Arabidopsis thaliana protein fragment SRQ ID NO: 21509.

XX Protein identification; signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
KM termination sequence.

XX Arabidopsis thaliana.

PN EPI033405-A2.

PD 06-SEP-2000.

PF 25-FEB-2000; 2000EP-00301439.

XX 25-FEB-1999; 99US-0121825P.
PR 05-MAR-1999; 99US-0123160P.
PR 09-MAR-1999; 99US-0123548P.
PR 23-MAR-1999; 99US-0125788P.
PR 25-MAR-1999; 99US-0126264P.
PR 29-MAR-1999; 99US-0126785P.
PR 01-APR-1999; 99US-0127462P.
PR 06-APR-1999; 99US-0128234P.
PR 08-APR-1999; 99US-0128714P.
PR 16-APR-1999; 99US-0129845P.
PR 19-APR-1999; 99US-0130077P.
PR 21-APR-1999; 99US-0130449P.
PR 23-APR-1999; 99US-0130510P.
PR 28-APR-1999; 99US-0130891P.
PR 30-APR-1999; 99US-0131449P.
PR 30-APR-1999; 99US-0132048P.
PR 04-MAY-1999; 99US-0132484P.
PR 05-MAY-1999; 99US-0132485P.
PR 06-MAY-1999; 99US-0132486P.
PR 07-MAY-1999; 99US-0132487P.
PR 11-MAY-1999; 99US-0132863P.
PR 14-MAY-1999; 99US-0134218P.
PR 14-MAY-1999; 99US-0134219P.
PR 14-MAY-1999; 99US-0134221P.
PR 18-MAY-1999; 99US-0134370P.
PR 18-MAY-1999; 99US-0134768P.
PR 19-MAY-1999; 99US-0134941P.
PR 20-MAY-1999; 99US-0135124P.
PR 21-MAY-1999; 99US-0135353P.
PR 24-MAY-1999; 99US-0135629P.
PR 25-MAY-1999; 99US-0136021P.
PR 27-MAY-1999; 99US-0136392P.

PR 28-MAY-1999; 99US-0136782P.
PR 01-JUN-1999; 99US-0137222P.
PR 03-JUN-1999; 99US-0137528P.
PR 04-JUN-1999; 99US-0137502P.
PR 07-JUN-1999; 99US-0137724P.
PR 08-JUN-1999; 99US-0138094P.
PR 10-JUN-1999; 99US-0138540P.
PR 14-JUN-1999; 99US-0138847P.
PR 16-JUN-1999; 99US-0139452P.
PR 16-JUN-1999; 99US-0139453P.
PR 17-JUN-1999; 99US-0139492P.
PR 18-JUN-1999; 99US-0139454P.
PR 18-JUN-1999; 99US-0139455P.
PR 18-JUN-1999; 99US-0139456P.
PR 18-JUN-1999; 99US-0139457P.
PR 18-JUN-1999; 99US-0139458P.
PR 18-JUN-1999; 99US-0139459P.
PR 18-JUN-1999; 99US-0139460P.
PR 18-JUN-1999; 99US-0139461P.
PR 18-JUN-1999; 99US-0139462P.
PR 18-JUN-1999; 99US-0139463P.
PR 18-JUN-1999; 99US-0139750P.
PR 18-JUN-1999; 99US-0139763P.
PR 21-JUN-1999; 99US-0139817P.
PR 22-JUN-1999; 99US-0139899P.
PR 23-JUN-1999; 99US-0140353P.
PR 23-JUN-1999; 99US-0140354P.
PR 24-JUN-1999; 99US-0140695P.
PR 28-JUN-1999; 99US-0140833P.
PR 29-JUN-1999; 99US-0140912P.
PR 30-JUN-1999; 99US-0141287P.
PR 01-JUL-1999; 99US-0141842P.
PR 01-JUL-1999; 99US-0142154P.
PR 02-JUL-1999; 99US-0142055P.
PR 06-JUL-1999; 99US-0142390P.
PR 08-JUL-1999; 99US-0142803P.
PR 09-JUL-1999; 99US-0142970P.
PR 12-JUL-1999; 99US-0142977P.
PR 13-JUL-1999; 99US-0143542P.
PR 14-JUL-1999; 99US-0143624P.
PR 15-JUL-1999; 99US-0144005P.
PR 16-JUL-1999; 99US-0144085P.
PR 16-JUL-1999; 99US-0144086P.
PR 19-JUL-1999; 99US-0144325P.
PR 19-JUL-1999; 99US-0144331P.
PR 19-JUL-1999; 99US-0144332P.
PR 19-JUL-1999; 99US-0144333P.
PR 19-JUL-1999; 99US-0144334P.
PR 19-JUL-1999; 99US-0144335P.
PR 20-JUL-1999; 99US-0144352P.
PR 20-JUL-1999; 99US-0144632P.
PR 20-JUL-1999; 99US-0144884P.
PR 21-JUL-1999; 99US-0144814P.
PR 21-JUL-1999; 99US-0145086P.
PR 21-JUL-1999; 99US-0145088P.
PR 22-JUL-1999; 99US-0145085P.
PR 22-JUL-1999; 99US-0145087P.
PR 22-JUL-1999; 99US-0145089P.
PR 22-JUL-1999; 99US-0145192P.
PR 23-JUL-1999; 99US-0145145P.
PR 23-JUL-1999; 99US-0145218P.
PR 23-JUL-1999; 99US-0145224P.
PR 26-JUL-1999; 99US-0145276P.
PR 27-JUL-1999; 99US-0145913P.
PR 27-JUL-1999; 99US-0145918P.
PR 27-JUL-1999; 99US-0145919P.
PR 27-JUL-1999; 99US-0145951P.
PR 28-JUL-1999; 99US-0146386P.
PR 02-AUG-1999; 99US-0146388P.
PR 02-AUG-1999; 99US-0147038P.
PR 04-AUG-1999; 99US-0147204P.

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PR 04-AUG-1999; 99US-0147302P.
PR 05-AUG-1999; 99US-01471999;
PR 05-AUG-1999; 99US-0147260P.
PR 06-AUG-1999; 99US-0147303P.
PR 06-AUG-1999; 99US-0147416P.
PR 09-AUG-1999; 99US-0147493P.
PR 09-AUG-1999; 99US-0147935P.
PR 10-AUG-1999; 99US-0148171P.
PR 11-AUG-1999; 99US-0148319P.
PR 12-AUG-1999; 99US-0148341P.
PR 13-AUG-1999; 99US-0148565P.
PR 16-AUG-1999; 99US-0149368P.
PR 17-AUG-1999; 99US-0149175P.
PR 18-AUG-1999; 99US-0149426P.
PR 20-AUG-1999; 99US-0149722P.
PR 20-AUG-1999; 99US-0149723P.
PR 20-AUG-1999; 99US-0149929P.
PR 23-AUG-1999; 99US-0149903P.
PR 23-AUG-1999; 99US-0149930P.
PR 25-AUG-1999; 99US-0150566P.
PR 26-AUG-1999; 99US-0150884P.
PR 27-AUG-1999; 99US-0151065P.
PR 27-AUG-1999; 99US-0151066P.
PR 27-AUG-1999; 99US-0151080P.
PR 30-AUG-1999; 99US-0151303P.
PR 31-AUG-1999; 99US-0151438P.
PR 01-SEP-1999; 99US-0151930P.
PR 07-SEP-1999; 99US-0152363P.
PR 10-SEP-1999; 99US-0153070P.
PR 13-SEP-1999; 99US-0153758P.
PR 15-SEP-1999; 99US-0154018P.
PR 16-SEP-1999; 99US-0154039P.
PR 20-SEP-1999; 99US-0154779P.
PR 22-SEP-1999; 99US-0155139P.
PR 23-SEP-1999; 99US-0155486P.
PR 24-SEP-1999; 99US-0155659P.
PR 28-SEP-1999; 99US-0156458P.
PR 29-SEP-1999; 99US-0156596P.
PR 04-OCT-1999; 99US-0157117P.
PR 05-OCT-1999; 99US-0157533P.
PR 06-OCT-1999; 99US-0157865P.
PR 07-OCT-1999; 99US-0158029P.
PR 08-OCT-1999; 99US-0158232P.
PR 12-OCT-1999; 99US-0158369P.
PR 13-OCT-1999; 99US-0159293P.
PR 13-OCT-1999; 99US-0159294P.
PR 14-OCT-1999; 99US-0159295P.
PR 14-OCT-1999; 99US-0159330P.
PR 14-OCT-1999; 99US-0159331P.
PR 14-OCT-1999; 99US-0159337P.
PR 14-OCT-1999; 99US-0159637P.
PR 14-OCT-1999; 99US-0159638P.
PR 18-OCT-1999; 99US-0159589P.
PR 21-OCT-1999; 99US-0160741P.
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PR 21-OCT-1999; 99US-0160814P.
PR 21-OCT-1999; 99US-0160815P.
PR 22-OCT-1999; 99US-0160980P.
PR 22-OCT-1999; 99US-0160981P.
PR 22-OCT-1999; 99US-0160989P.
PR 25-OCT-1999; 99US-0161404P.
PR 25-OCT-1999; 99US-0161405P.
PR 25-OCT-1999; 99US-0161406P.
PR 26-OCT-1999; 99US-0161359P.
PR 26-OCT-1999; 99US-0161360P.
PR 26-OCT-1999; 99US-0161361P.
PR 28-OCT-1999; 99US-0161920P.
PR 28-OCT-1999; 99US-0161922P.
PR 28-OCT-1999; 99US-0161993P.
PR 29-OCT-1999; 99US-0162142P.

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Query Match 100.0%; Score 19; DB 3; Length 80;
Best Local Similarity 100.0%; Pred. No. 3.4e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
   ||||
Db 60 AOGV 63

RESULT 209
ADH39815
ID ADH39815 standard; protein; 80 AA.
XX
XX ADH39815;
AC
XX
XX 11-MAR-2004 (first entry)
DE
XX FarA amino acid sequence.
XX actinomycetes-originated plasmid; linear plasmid; pSLA2-L;
XX Streptomyces rochei; secondary metabolite; antibiotic; vitamin;
XX lankamycin; mithramycin-like substance; carotenoid; lankacidin.
OS
XX Unidentified.
XX WO2004001039-A1.
XX
XX 31-DEC-2003.
XX
XX 19-JUN-2003; 2003WO-JP007767.
XX
XX 20-JUN-2002; 2002JP-00179345.
XX
XX (NISC-) JAPAN SCI & TECHNOLOGY CORP.
XX
XX Kinashi H;
XX
XX WPI; 2004-082503/08.
XX
XX Actinomycetes-originated plasmids for producing secondary metabolites e.g.
XX antibiotics and vitamins like lankamycins, lankacidins, mithramycin-like
XX substances and carotenoids.
XX
XX Disclosure; Fig 6A; 499pp; Japanese.
XX
XX The present invention describes an actinomycetes-originated plasmid is a
XX linear plasmid (pSLA2-L) originating in Streptomyces rochei, which has a
XX base sequence capable of providing any of the protein sequences of SEQ ID
XX NO.1 to 143 (ADH39670 to ADH39812), or one based on these sequences but
XX with some amino acids deleted, substituted or added and capable of
XX producing a secondary metabolite. Also described is a process for
XX producing a secondary metabolite by using the plasmid. The plasmid can be
XX used for producing secondary metabolites e.g. antibiotics and vitamins
XX like lankamycins, mithramycin-like substances, carotenoids and
XX lankacidins. Such secondary metabolites are produced selectively and
XX efficiently. The present sequence represents an amino acid sequence given
XX in the exemplification of the present invention.
XX
XX Sequence 80 AA;

Query Match 100.0%; Score 19; DB 8; Length 80;
Best Local Similarity 100.0%; Pred. No. 3.4e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
   ||||
Db 57 AOGV 60

RESULT 210
ABP10494
ID ABP10494 standard; protein; 81 AA.

```

XX ABP10494;
 AC
 XX
 DT 24-JUN-2002 (first entry)
 XX
 DE Human ORFX protein sequence SEQ ID NO:20970.
 XX
 XX Human; open reading frame; ORFX; gene therapy; cancer; cirrhosis;
 KW hyperproliferative disorder; psoriasis; benign tumour; haemorrhage;
 KW degenerative disorder; osteoarthritis; neurodegenerative disorder;
 KW cardiovascular disease; diabetes mellitus; systemic lupus erythematosus;
 KW hyperextension; hypochyroidism; cholesterol ester storage disease;
 KW immune deficiency; immune disorder; infectious disease;
 KW autoimmune disorder; rheumatoid arthritis; autoimmune thyroiditis;
 KW myasthenia gravis.
 XX Homo sapiens.
 OS
 XX
 PN WO200192523-A2.
 XX
 PD 06-DEC-2001.
 XX
 PF 29-MAY-2001; 2001WO-US010836.
 XX
 PR 30-MAY-2000; 2000US-0206132P.
 XX
 PR 29-AUG-2000; 2000US-0228716P.
 XX
 PA (CURA-) CURAGEN CORP.
 XX
 PI Shinkets RA, Leach MD;
 XX
 DR WPI: 2002-106308/14.
 XX
 DR N-PSDB; ABN26246.
 XX
 PT Novel human polypeptides and polynucleotides useful for diagnosing,
 PT preventing and treating cardiovascular disease, neurodegenerative,
 PT hyperproliferative disorders and autoimmune disorders.
 PS
 PS Disclosure; SEQ ID NO 20970; 1037bp; English.
 XX
 CC The present invention describes substantially purified human proteins
 CC (referred to as open reading frame, ORFX, where X is 1-11491 (see Table 1
 CC in the specification). ABN15762 to ABN27252 encode the human ORFX
 CC protein given in ABP00010 to ABP11500. ORFX proteins are useful for
 CC treating or preventing a pathology associated with an ORFX-associated
 CC disorder in humans, and in the manufacture of a medicament for treating a
 CC syndrome associated with ORFX-associated disorder. ORFX polynucleotide
 CC sequences can be used in gene therapy. ORFX sequences can be used in the
 CC treatment of cancer. Hyperproliferative disorders, cirrhosis of liver,
 CC psoriasis, benign tumours, keloid, degenerative disorders, haemorrhage,
 CC osteoarthritis, neurodegenerative disorders, disorders related to organ
 CC transplantation, cardiovascular diseases, diabetes mellitus, systemic
 CC lupus erythematosus, hypertension, hypochyroidism, cholesterol ester
 CC storage disease, various immune deficiencies and disorders, infectious
 CC diseases, autoimmune disorders such as multiple sclerosis, rheumatoid
 CC arthritis, autoimmune thyroiditis, myasthenia gravis, graft-versus-host
 CC disease and autoimmune inflammatory eye disease. ORFX proteins are also
 CC useful for treating burns, incisions, ulcers, for treating osteoporosis,
 CC bone degenerative disorders, or periodontal disease, and for gut
 CC protection or regeneration and treatment of lung or liver fibrosis,
 CC reperfusion injury in various tissues and conditions resulting from
 CC systemic cytokine damage. N.B. The sequence data for this patent did not
 CC form part of the printed specification, but was obtained in electronic
 CC format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
 XX
 XX Sequence 81 AA;

Query Match 100.0%; Score 19; DB 5; Length 81;
 Best Local Similarity 100.0%; Pred. No. 3.5e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

DB 48 AGCV 51
 RESULT 211
 ID AUA52713 standard; protein; 82 AA.
 AC
 XX
 AC AUA52713;
 XX
 DT 27-FEB-2002 (first entry)
 XX
 DE Propionibacterium acnes immunogenic protein #13609.
 XX
 KW SAPHO syndrome; synovitis; acne; pustulosis; hyperostosis; osteomyelitis;
 KW uveitis; endophthalmitis; bone; joint; central nervous system; ELISA;
 KW inflammatory lesion; acne vulgaris; enzyme linked immunosorbent assay;
 KW dermatological; osteopathic; neuroprotectant.
 XX
 XX Propionibacterium acnes.
 OS
 XX
 PN WO200181581-A2.
 XX
 PD 01-NOV-2001.
 XX
 PF 20-APR-2001; 2001WO-US012865.
 XX
 PR 21-APR-2000; 2000US-0199047P.
 XX
 PR 02-JUN-2000; 2000US-0208841P.
 XX
 PR 07-JUL-2000; 2000US-0216747P.
 XX
 PA (CORI-) CORIXA CORP.
 XX
 PI Skeiky YAW, Persing DH, Mitcham JL, Wang SS, Bhatia A;
 PI L.malsomneuve J, Zhang Y, Jen S, Carter D;
 XX
 DR WPI: 2001-616774/71.
 XX
 DR N-PSDB; AAS59557.
 XX
 PT Propionibacterium acnes polypeptides and nucleic acids useful for
 PT vaccinating against and diagnosing infections, especially useful for
 PT treating acne vulgaris.
 PS
 PS Example 1; SEQ ID NO 13908; 1069bp; English.
 XX
 CC Sequences AUA52713-05-AUA568017 represent Propionibacterium acnes immunogenic
 CC polypeptides. The proteins and their associated DNA sequences are used in
 CC the treatment, prevention and diagnosis of medical conditions caused by
 CC P. acnes. The disorders include SAPHO syndrome (synovitis, acne,
 CC pustulosis, hyperostosis and osteomyelitis), uveitis and endophthalmitis.
 CC P. acnes is also involved in infections of bone, joints and the central
 CC nervous system, however it is particularly involved in the inflammatory
 CC lesions associated with acne vulgaris. A method for detecting the
 CC presence or absence of P. acnes in a patient comprises contacting a
 CC sample with a binding agent that binds to the proteins of the invention
 CC and determining the amount of bound protein in the sample. The
 CC polypeptides may be used as antigens in the production of antibodies
 CC specific for P. acnes proteins. These antibodies can be used to
 CC downregulate expression and activity of P. acnes polypeptides and
 CC therefore treat P. acnes infections. The antibodies may also be used as
 CC diagnostic agents for determining P. acnes presence, for example, by
 CC enzyme linked immunosorbent assay (ELISA). Note: The sequence data for
 CC this patent did not form part of the printed specification, but was
 CC obtained in electronic format directly from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 XX
 XX Sequence 82 AA;

Query Match 100.0%; Score 19; DB 4; Length 82;
 Best Local Similarity 100.0%; Pred. No. 3.5e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX 07-NOV-2001 (first entry)
XX Human immune/haematopoietic antigen SEQ ID NO:14718.
DE Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
KW cytostatic; gene therapy; vaccine; metastasis.
XX Homo sapiens.
XX WO200157182-A2.
XX 09-AUG-2001.
XX 17-JAN-2001; 2001KO-US001354.
XX 31-JAN-2000; 2000US-0179065P.
XX 04-FEB-2000; 2000US-0180628P.
XX 24-FEB-2000; 2000US-0184664P.
XX 02-MAR-2000; 2000US-0186350P.
XX 16-MAR-2000; 2000US-0189874P.
XX 17-MAR-2000; 2000US-0190076P.
XX 18-APR-2000; 2000US-0198123P.
XX 19-MAY-2000; 2000US-0205515P.
XX 07-JUN-2000; 2000US-0209467P.
XX 28-JUN-2000; 2000US-0214886P.
XX 30-JUN-2000; 2000US-0215135P.
XX 07-JUL-2000; 2000US-0216647P.
XX 07-JUL-2000; 2000US-0216880P.
XX 11-JUL-2000; 2000US-0217487P.
XX 11-JUL-2000; 2000US-0217496P.
XX 26-JUL-2000; 2000US-0220963P.
XX 26-JUL-2000; 2000US-0220964P.
XX 14-AUG-2000; 2000US-0224518P.
XX 14-AUG-2000; 2000US-0224519P.
XX 14-AUG-2000; 2000US-0225213P.
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XX 14-AUG-2000; 2000US-0225447P.
XX 14-AUG-2000; 2000US-0225757P.
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XX 18-AUG-2000; 2000US-0226279P.
XX 22-AUG-2000; 2000US-0226681P.
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XX 23-AUG-2000; 2000US-0227182P.
XX 23-AUG-2000; 2000US-0227009P.
XX 30-AUG-2000; 2000US-0228924P.
XX 01-SEP-2000; 2000US-0229287P.
XX 01-SEP-2000; 2000US-0229343P.
XX 01-SEP-2000; 2000US-0229344P.
XX 01-SEP-2000; 2000US-0229345P.
XX 05-SEP-2000; 2000US-0229509P.
XX 05-SEP-2000; 2000US-0229513P.
XX 06-SEP-2000; 2000US-0230437P.
XX 06-SEP-2000; 2000US-0230438P.
XX 08-SEP-2000; 2000US-0231242P.
XX 08-SEP-2000; 2000US-0231243P.
XX 08-SEP-2000; 2000US-0231244P.
XX 08-SEP-2000; 2000US-0231413P.
XX 08-SEP-2000; 2000US-0231414P.
XX 08-SEP-2000; 2000US-0232080P.
XX 12-SEP-2000; 2000US-0231968P.
XX 14-SEP-2000; 2000US-0232397P.
XX 14-SEP-2000; 2000US-0232398P.
XX 14-SEP-2000; 2000US-0232399P.
XX 14-SEP-2000; 2000US-0232400P.
XX 14-SEP-2000; 2000US-0232401P.

PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
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PR 21-SEP-2000; 2000US-0234223P.
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PR 25-SEP-2000; 2000US-0234997P.
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PR 29-SEP-2000; 2000US-0236389P.
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PR 08-NOV-2000; 2000US-0246474P.
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PR 17-NOV-2000; 2000US-0249297P.
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PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
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PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251856P.

PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251989P.
PR 08-DEC-2000; 2000US-0251989P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0259678P.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Rosen CA, Barash SC, Ruben SM;
XX
DR WPI: 2001-483426/52.
DR N-PSDB; AAK59906.
XX
PT Nucleic acid encoding human immune/hematopoietic antigen polypeptides,
useful for preventing, diagnosing and/or treating cancers and metastasis.
XX
PS Claim 11; SEQ ID NO 14718; 3071pp + Sequence Listing; English.
XX
CC AAK54951 to AAK64702 encode the human immune/hematopoietic antigen (I)
CC amino acid sequences given in AAM62170 to AAM91921. (I) have cytosolic
CC activity, and can be used in gene therapy and vaccine production. (I)
CC proteins and polynucleotides may be used in the prevention, diagnosis and
CC treatment of diseases associated with inappropriate (I) expression. For
CC example, they may be used to treat disorders associated with decreased
CC expression by rectifying mutations or deletions in a patient's genome
CC that affect the activity of (I) by expressing inactive proteins or to
CC supplement the patients own production of (I). Additionally, (I)
CC polynucleotides may be used to produce the secreted (I), by inserting the
CC nucleic acids into a host cell and culturing the cell to express the
CC protein. (I) proteins and polynucleotides may be used to prevent,
CC diagnose and treat immune/hematopoietic-related diseases, especially
CC cancers and cancer metastases of hematopoietic-derived cells. AAK64703
CC to AAK87694 represent human immune/hematopoietic antigen genomic
CC sequences from the present invention. AAK54942 to AAK54950 and AAM62169
CC represent sequences used in the exemplification of the present invention
XX
SQ Sequence 83 AA;
XX
Query Match 100.0%; Score 19; DB 4; Length 83;
Best Local Similarity 100.0%; Pred. No. 3.5e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AGGV 4
|||
38 AGGV 41
XX
RESULT 215
AAG34308
ID AAG34308 standard; protein; 84 AA.
XX
AC AAG34308;
XX
DT 18-OCT-2000 (first entry)
XX
DE Arabidopsis thaliana protein fragment SEQ ID NO: 41721.
XX
KW Protein identification; signal transduction pathway; metabolic pathway;
KW hydriation assay; genetic mapping; gene expression control; promoter;
XX
XX termination sequence.
XX
OS Arabidopsis thaliana.
XX
PN EP1033405-A2.
XX
PD 06-SEP-2000.
XX
PF 25-FEB-2000; 2000EP-00301439.
XX
PR 25-FEB-1999; 99US-0121825P.
PR 05-MAR-1999; 99US-0123180P.
PR 09-MAR-1999; 99US-0123548P.

PR 23-MAR-1999; 99US-0125798P.
PR 25-MAR-1999; 99US-0126264P.
PR 29-MAR-1999; 99US-0126785P.
PR 01-APR-1999; 99US-0127462P.
PR 06-APR-1999; 99US-0128234P.
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PR 10-AUG-1999; 99US-0148171P.
PR 11-AUG-1999; 99US-0148319P.
PR 12-AUG-1999; 99US-0148341P.
PR 13-AUG-1999; 99US-0148565P.
PR 13-AUG-1999; 99US-0148684P.
PR 16-AUG-1999; 99US-0149368P.
PR 17-AUG-1999; 99US-0149175P.
PR 18-AUG-1999; 99US-0149426P.
PR 20-AUG-1999; 99US-0149722P.
PR 20-AUG-1999; 99US-0149723P.
PR 20-AUG-1999; 99US-0149929P.
PR 23-AUG-1999; 99US-0149902P.
PR 23-AUG-1999; 99US-0149930P.
PR 25-AUG-1999; 99US-0150566P.
PR 26-AUG-1999; 99US-0150884P.
PR 27-AUG-1999; 99US-0151065P.
PR 27-AUG-1999; 99US-0151066P.
PR 27-AUG-1999; 99US-0151080P.
PR 30-AUG-1999; 99US-0151303P.
PR 31-AUG-1999; 99US-0151438P.
PR 01-SEP-1999; 99US-0151930P.
PR 07-SEP-1999; 99US-0152363P.
PR 10-SEP-1999; 99US-0153070P.
PR 13-SEP-1999; 99US-0153758P.
PR 15-SEP-1999; 99US-0154018P.
PR 16-SEP-1999; 99US-0154039P.
PR 20-SEP-1999; 99US-0154779P.
PR 22-SEP-1999; 99US-0155139P.
PR 23-SEP-1999; 99US-0155486P.
PR 23-SEP-1999; 99US-0155659P.
PR 28-SEP-1999; 99US-0156458P.
PR 29-SEP-1999; 99US-0156596P.
PR 04-OCT-1999; 99US-0157117P.
PR 05-OCT-1999; 99US-0157533P.
PR 06-OCT-1999; 99US-0157865P.

PR 07-OCT-1999; 99US-0158029P.
PR 08-OCT-1999; 99US-0158232P.
PR 12-OCT-1999; 99US-0158369P.
PR 13-OCT-1999; 99US-0159293P.
PR 13-OCT-1999; 99US-0159294P.
PR 13-OCT-1999; 99US-0159295P.
PR 14-OCT-1999; 99US-0159329P.
PR 14-OCT-1999; 99US-0159330P.
PR 14-OCT-1999; 99US-0159331P.
PR 14-OCT-1999; 99US-0159637P.
PR 14-OCT-1999; 99US-0159638P.
PR 18-OCT-1999; 99US-0159584P.
PR 21-OCT-1999; 99US-0160741P.
PR 21-OCT-1999; 99US-0160767P.
PR 21-OCT-1999; 99US-0160768P.
PR 21-OCT-1999; 99US-0160770P.
PR 21-OCT-1999; 99US-0160814P.
PR 21-OCT-1999; 99US-0160815P.
PR 22-OCT-1999; 99US-0160980P.
PR 22-OCT-1999; 99US-0160981P.
PR 22-OCT-1999; 99US-0160989P.
PR 23-OCT-1999; 99US-0161404P.
PR 25-OCT-1999; 99US-0161405P.
PR 25-OCT-1999; 99US-0161406P.
PR 26-OCT-1999; 99US-0161359P.
PR 26-OCT-1999; 99US-0161360P.
PR 26-OCT-1999; 99US-0161361P.
PR 26-OCT-1999; 99US-0161920P.
PR 28-OCT-1999; 99US-0161920P.
PR 28-OCT-1999; 99US-0161933P.
PR 29-OCT-1999; 99US-0162142P.

Query Match 100.0%; Score 19; DB 3; Length 84;

Best Local Similarity 100.0%; Pred. No. 3.6e+03; Indels 0; Gaps 0;

Matches 4; Conservative 0; Mismatches 0;

Qy 1 AOCV 4
|||
Db 21 AOCV 24

RESULT 216
ABB65061
ID ABB65061 standard; protein; 84 AA.
XX
AC ABB65061;
XX
DT 26-MAR-2002 (first entry)
XX
DE Drosophila melanogaster polypeptide SEQ ID NO 21975.
XX
KW Drosophila; developmental biology; cell signalling; insecticide;
KW pharmaceutical.
XX
OS Drosophila melanogaster.
XX
PN NO2001.71042-A2.
XX
PD 27-SEP-2001.
XX
PF 23-MAR-2001; 2001WO-US009231.
PR 23-MAR-2000; 2000US-0191637P.
PR 11-JUL-2000; 2000US-00614150.
XX
PA (PEKE) PE CORP NY.
XX
PI Venter JC, Adams M, Li PWD, Myers EW;
XX WPI; 2001-656860/75.
DR N-PSDB; ABL09164.
XX
PT New isolated nucleic acid detection reagent for detecting 1000 or more

PT genes from *Drosophila* and for elucidating cell signaling and cell-cell interactions.

XX

PS Disclosure; SEQ ID NO 21975; 21pp + Sequence Listing; English.

XX

CC The invention relates to an isolated nucleic acid detection reagent capable of detecting 1000 or more genes from *Drosophila*. The invention is useful in developmental biology and in elucidating cell signalling and cell-cell interactions in higher eukaryotes for the development of insecticides, therapeutics and pharmaceutical drugs. The invention discloses genomic DNA sequences (AB16176-AB163511), expressed DNA sequences (AB101840-AB16175) and the encoded proteins (AB857737-AB872072). The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences

CC

XX

SQ Sequence 84 AA;

Query Match 100.0%; Score 19; DB 4; Length 84;
Best Local Similarity 100.0%; Pred. No. 3.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
|||
Db 50 ACGV 53

RESULT 217

AAU61282

ID AAU61282 standard; protein; 84 AA.

XX

AC AAU61282;

XX

DT 27-FEB-2002 (first entry)

XX

DE Propionibacterium acnes immunogenic protein #22178.

XX

KM SAPHO syndrome; synovitis; acne; pustulosis; hypertosis; osteomyelitis; uveitis; endophthalmitis; bone; joint; central nervous system; ELISA; inflammatory lesion; acne vulgaris; enzyme linked immunosorbent assay; dermatological; osteopthc; neuroprotectant.

XX

OS Propionibacterium acnes.

XX

PN WO200181581-A2.

XX

PD 01-NOV-2001.

XX

PF 20-APR-2001; 2001WO-US012865.

XX

PR 21-APR-2000; 2000US-0199047P.

XX

PR 02-JUN-2000; 2000US-0208841P.

XX

PR 07-JUL-2000; 2000US-0216747P.

XX

PA (CORI-) CORIXA CORP.

XX

PI Skeiky YAM, Persing DH, Mitcham JL, Wang SS, Bhatia A;

XX

PI L'maisonneuve J, Zhang Y, Jen S, Carter D;

XX

DR WPI; 2001-616774/71.

XX

DR N-PSDB; AAS559615.

XX

PT Propionibacterium acnes polypeptides and nucleic acids useful for treating acne vulgaris.

XX

PS Example 1; SEQ ID NO 22477; 1069pp; English.

XX

CC Sequences AAU39105-AAU68017 represent Propionibacterium acnes immunogenic polypeptides. The proteins and their associated DNA sequences are used in the treatment, prevention and diagnosis of medical conditions caused by *P. acnes*. The disorders include SAPHO syndrome (synovitis, acne, pustulosis, hypertosis and osteomyelitis), uveitis and endophthalmitis.

CC *P. acnes* is also involved in infections of bone, joints and the central nervous system, however it is particularly involved in the inflammatory lesions associated with acne vulgaris. A method for detecting the presence or absence of *P. acnes* in a patient comprises contacting a sample with a binding agent that binds to the proteins of the invention and determining the amount of bound protein in the sample. The polypeptides may be used as antigens in the production of antibodies specific for *P. acnes* proteins. These antibodies can be used to downregulate expression and activity of *P. acnes* polypeptides and therefore treat *P. acnes* infections. The antibodies may also be used as diagnostic agents for determining *P. acnes* presence, for example, by enzyme linked immunosorbent assay (ELISA). Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences

CC

XX

SQ Sequence 84 AA;

Query Match 100.0%; Score 19; DB 4; Length 84;
Best Local Similarity 100.0%; Pred. No. 3.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
|||
Db 65 ACGV 68

RESULT 218

ABG05322

ID ABG05322 standard; protein; 84 AA.

XX

AC ABG05322;

XX

DT 13-FEB-2002 (first entry)

XX

DE Novel human diagnostic protein #5313.

XX

KM Human; chromosome mapping; gene mapping; gene therapy; forensic; food supplement; medical imaging; diagnostic; genetic disorder.

XX

OS Homo sapiens.

XX

PN WO200175067-A2.

XX

PD 11-OCT-2001.

XX

PF 30-MAR-2001; 2001WO-US008631.

XX

PR 31-MAR-2000; 2000US-00540217.

XX

PR 23-AUG-2000; 2000US-00649167.

XX

PA (HYSE-) HYSEQ INC.

XX

PI Drmanac RT, Liu C, Tang YT;

XX

DR WPI; 2001-639362/73.

XX

DR N-PSDB; AAS69509.

XX

PT New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess biodiversity.

XX

PS Claim 20; SEQ ID NO 35681; 103pp; English.

XX

CC The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or quantitating a

CC polypeptide in tissue, as molecular weight markers and as a food
CC supplement. (II) and its binding partners are useful in medical imaging
CC of sites expressing (II). (I) and (II) are useful for treating disorders
CC involving aberrant protein expression or biological activity. The
CC polypeptide and polynucleotide sequences have applications in
CC diagnostics, forensics, gene mapping, identification of mutations
CC responsible for genetic disorders or other traits to assess biodiversity
CC and to produce other types of data and products dependent on DNA and
CC amino acid sequences. ABG0010-ABG30377 represent novel human diagnostic
CC amino acid sequences of the invention. Note: The sequence data for this
CC patent did not appear in the printed specification, but was obtained in
CC electronic format directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX

Sequence 84 AA:
SQ

Query Match 100.0%; Score 19; DB 4; Length 84;
Best Local Similarity 100.0%; Pred. No. 3.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
DB 39 ACGV 42

RESULT 219
AAG89210
ID AAG89210 standard; protein; 84 AA.
XX
AC AAG89210;
XX
DT 11-SEP-2001 (first entry)
XX
DE Human secreted protein, SEQ ID NO: 330.
XX
DE Human secreted protein; gene therapy; vaccine; treatment; diagnosis;
XX GENSET.
XX
KM Homo sapiens.
XX
OS
XX
PN WO200142451-A2.
XX
PD 14-JUN-2001.
XX
PF 07-DEC-2000; 2000WO-1B001938.
XX
PR 08-DEC-1999; 99US-0169629P.
XX
PR 06-MAR-2000; 2000US-0187470P.
XX
PA (GEST) GENSET.
XX
PI Dumas Milne Edwards J, Bougueleret L, Jobert S;
XX
XX WPI; 2001-367870/38.
XX
DR N-PDB; AAH64813.
XX
XX
PT Full length GENSET human nucleic acids encoding potentially secreted
XX proteins, useful in gene therapy and vaccination against a variety of
XX diseases, and for diagnosis of those diseases.
XX
PS Claim 21, Page 848; 921pp; English.
XX
XX The invention relates to full length GENSET human nucleic acids encoding
XX potentially secreted proteins. The nucleic acids and the polypeptides
XX they encode may be used in the prevention, treatment and diagnosis of
XX diseases associated with inappropriate GENSET gene expression. For
XX example, they be used to treat disorders associated with decreased GENSET
XX gene expression by rectifying mutations or deletions in a patient's
XX genome that affect the activity of GENSET or by supplementing the
XX patients own production of GENSET polypeptides. Conversely, antisense
XX nucleic acid molecules may be administered to down regulate GENSET
XX expression by binding with the cells' own genes and preventing their
XX expression. The sense and antisense nucleic acids may also be used as DNA

CC probes in diagnostic assays to detect and quantitate the presence of
CC similar nucleic acid sequences in samples, and hence to determine which
CC patients may be in need of restorative therapy. The GENSET polypeptides
CC may be used as antigens in the production of antibodies and in assays to
CC identify modulators (agonists and antagonists) of GENSET polypeptide
CC expression and activity. The present sequence is a GENSET polypeptide of
CC the invention
XX

Sequence 84 AA:
SQ

Query Match 100.0%; Score 19; DB 4; Length 84;
Best Local Similarity 100.0%; Pred. No. 3.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACGV 4
DB 30 ACGV 33

RESULT 220
ABM57801
ID ABM57801 standard; protein; 84 AA.
XX
AC ABM57801;
XX
DT 20-OCT-2003 (first entry)
XX
DE Propionibacterium acnes predicted ORF-encoded polypeptide #22477.
XX
XX Acne vulgaris; antiseborrheic; dermatological; antibacterial;
XX immunostimulant; immune response; vaccine.
XX
OS Propionibacterium acnes.
XX
XX
XX WO2003033515-A1.
XX
PD 24-APR-2003.
XX
PF 11-OCT-2002; 2002WO-US032727.
XX
XX 15-OCT-2001; 2001US-00978825.
XX
XX (CORI-) CORIXA CORP.
XX
PA Mitcham JL, Skeiky YAM, Persing DH, Bhatia A, Maisonneuve JL;
XX
PI Zhang Y, Wang S, Jen S, Lodes WJ, Benson DR, Jones R, Carter D;
XX
PI Barth B, Vallieue-Douglas J;
XX
XX
DR WPI; 2003-381769/36.
XX
DR N-PDB; ACF64544.
XX
XX
PT New Propionibacterium acnes polypeptides and polynucleotides encoding the
XX polypeptide, useful for diagnosing, preventing or treating acne vulgaris,
XX or for stimulating an immune response specific for a P. acnes protein.
XX
PS Example 1; SEQ ID NO 22477; 1481pp; English.
XX
XX The invention relates to an isolated polynucleotide (ACF64435-ACF64733)
XX encoding a Propionibacterium acnes protein. The invention also relates to
XX polypeptides encoded by the polynucleotides (ABM5624-ABM64536) and to
XX immunogenic fragments of P. acnes polypeptides. The invention
XX additionally encompasses expression vectors and host cells comprising a
XX polynucleotide of the invention; antibodies against polypeptides of the
XX invention; fusion proteins comprising a polypeptide of the invention; a
XX method for stimulating an immune response specific for a P. acnes
XX polypeptide and an isolated T cell population comprising T cells prepared
XX via this method; a vaccine composition (comprising P. acnes polypeptides,
XX polynucleotides, antibodies, fusion proteins, T cell populations, or
XX antigen-presenting cells that express the polypeptide); a method and kit
XX for detecting or determining the presence or absence of P. acnes in a
XX patient; and a method for inhibiting the development of P. acnes in a
XX patient. The P. acnes polypeptides, polynucleotides, antibodies, fusion
XX proteins, T cell populations or antigen-presenting cells that express the

CC polypeptides are useful for diagnosing, preventing or treating acne
 CC vulgaris, or for stimulating an immune response specific for a P. acnes
 CC protein. The polynucleotides can also be used as probes or primers for
 CC nucleic acid hybridisation. The vaccine composition is useful for the
 CC stimulation of an immune response against P. acnes, or for treating acne,
 CC and the kit is useful for performing a diagnostic assay. The present
 CC sequence represents a polypeptide predicted to be encoded by an ORF (open
 CC reading frame) contained within the P. acnes polynucleotides of the
 CC invention. Note: The sequence data for this patent did not form part of
 CC the printed specification, but was obtained in electronic format directly
 CC from WIPO at ftp.wipo.int/pub/published_pct_sequences
 CC
 XX

SO Sequence 84 AA;

Query Match 100.0%; Score 19; DB 6; Length 84;
 Best Local Similarity 100.0%; Pred. No. 3.6e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 AOGV 4
 ||||
 Db 65 AOGV 68

RESULT 221

ABP76020
 ID ABP76020 standard; protein; 84 AA.

AC ABP76020;

DT 21-FEB-2003 (first entry)

DE Human GENSET protein SEQ ID 227.

XX Cytostatic; antiinflammatory; nootropic; neuroprotective; cardiant;
 KM gastrointestinal; gene therapy; GENSET; heavy metal toxicity; cancer;
 KM inflammatory disease; immune disorder; neuromuscular; toxicity;
 KM central nervous system; cardiovascular; gastrointestinal.

XX Homo sapiens.

XX WO200283898-A1.

XX 24-OCT-2002.

XX 18-APR-2001; 2001WO-IB000914.

XX 18-APR-2001; 2001WO-IB000914.

XX (GENSET) GENSET.

XX Bejanin S, Tanaka H, Dumas Milne Edwards J, Jobert S, Giordano J;

XX WPI; 2003-075548/07.

PT New GENSET polynucleotides and polypeptides, useful for treating heavy
 PT metal toxicity, cancer, inflammatory diseases, immune disorders, and the
 PT neuromuscular, CNS, cardiovascular or gastrointestinal effects of the
 PT toxicity.

PS Claim 14; Page 426-427; 735pp; English.

CC The present invention relates to novel GENSET polynucleotides (AB236404-
 CC AB236911) encoding polypeptides (ABP75963-ABP76368). The polynucleotides
 CC and polypeptides are useful in screening and diagnostic assays for
 CC abnormal GENSET expression and/or biological activity. They are also
 CC useful for screening of compounds for treating or preventing GENSET-
 CC related disorders, such as heavy metal toxicity, cancer, inflammatory
 CC diseases, immune disorders, and the neuromuscular, central nervous system
 CC (CNS), cardiovascular or gastrointestinal effects of the toxicity

XX Sequence 84 AA;

Query Match 100.0%; Score 19; DB 6; Length 84;

Best Local Similarity 100.0%; Pred. No. 3.6e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 AOGV 4
 ||||
 Db 30 AOGV 33

RESULT 222

ABP76176
 ID ABP76176 standard; protein; 84 AA.

AC ABP76176;

DT 21-FEB-2003 (first entry)

DE Human GENSET protein SEQ ID 502.

XX Cytostatic; antiinflammatory; nootropic; neuroprotective; cardiant;
 KM gastrointestinal; gene therapy; GENSET; heavy metal toxicity; cancer;
 KM inflammatory disease; immune disorder; neuromuscular; toxicity;
 KM central nervous system; cardiovascular; gastrointestinal.

XX Homo sapiens.

XX WO200283898-A1.

XX 24-OCT-2002.

XX 18-APR-2001; 2001WO-IB000914.

XX 18-APR-2001; 2001WO-IB000914.

XX (GENSET) GENSET.

XX Bejanin S, Tanaka H, Dumas Milne Edwards J, Jobert S, Giordano J;

XX WPI; 2003-075548/07.

PT New GENSET polynucleotides and polypeptides, useful for treating heavy
 PT metal toxicity, cancer, inflammatory diseases, immune disorders, and the
 PT neuromuscular, CNS, cardiovascular or gastrointestinal effects of the
 PT toxicity.

PS Claim 14; Page 553; 735pp; English.

CC The present invention relates to novel GENSET polynucleotides (AB236404-
 CC AB236911) encoding polypeptides (ABP75963-ABP76368). The polynucleotides
 CC and polypeptides are useful in screening and diagnostic assays for
 CC abnormal GENSET expression and/or biological activity. They are also
 CC useful for screening of compounds for treating or preventing GENSET-
 CC related disorders, such as heavy metal toxicity, cancer, inflammatory
 CC diseases, immune disorders, and the neuromuscular, central nervous system
 CC (CNS), cardiovascular or gastrointestinal effects of the toxicity

XX Sequence 84 AA;

Query Match 100.0%; Score 19; DB 6; Length 84;
 Best Local Similarity 100.0%; Pred. No. 3.6e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 AOGV 4
 ||||
 Db 30 AOGV 33

RESULT 223

AAG27024
 ID AAG27024 standard; protein; 85 AA.

XX AAG27024;

DT 17-OCT-2000 (first entry)

XX	Zea mays protein fragment SEQ ID NO: 31702.	PR	21-JUN-1999;	99US-0139817P.
DE		PR	22-JUN-1999;	99US-0139899P.
XX		PR	23-JUN-1999;	99US-0140353P.
XX		PR	23-JUN-1999;	99US-0140354P.
KW	Protein identification; signal transduction pathway; metabolic pathway;	PR	24-JUN-1999;	99US-0140658P.
KW	Hybridisation assay; genetic mapping; gene expression control; promoter;	PR	28-JUN-1999;	99US-0140823P.
KW	Termination sequence; corn.	PR	29-JUN-1999;	99US-0140991P.
XX		PR	30-JUN-1999;	99US-0141287P.
OS	Zea mays subsp. mays.	PR	01-JUL-1999;	99US-0141842P.
PN	EP1033405-A2.	PR	01-JUL-1999;	99US-0142154P.
XX		PR	02-JUL-1999;	99US-0142055P.
XX		PR	06-JUL-1999;	99US-0142380P.
PD		PR	08-JUL-1999;	99US-0142803P.
XX	06-SEP-2000.	PR	09-JUL-1999;	99US-0142920P.
PF		PR	12-JUL-1999;	99US-0142977P.
XX	25-FEB-2000; 2000EP-00301439.	PR	13-JUL-1999;	99US-0143542P.
XX		PR	14-JUL-1999;	99US-0143624P.
PR	25-FEB-1999;	PR	15-JUL-1999;	99US-0144005P.
PR	05-MAR-1999;	PR	16-JUL-1999;	99US-0144085P.
PR	09-MAR-1999;	PR	16-JUL-1999;	99US-0144085P.
PR	23-MAR-1999;	PR	16-JUL-1999;	99US-0144085P.
PR	25-MAR-1999;	PR	19-JUL-1999;	99US-0144325P.
PR	29-MAR-1999;	PR	19-JUL-1999;	99US-0144331P.
PR	01-APR-1999;	PR	19-JUL-1999;	99US-0144332P.
PR	06-APR-1999;	PR	19-JUL-1999;	99US-0144333P.
PR	08-APR-1999;	PR	19-JUL-1999;	99US-0144334P.
PR	16-APR-1999;	PR	19-JUL-1999;	99US-0144335P.
PR	19-APR-1999;	PR	20-JUL-1999;	99US-0144335P.
PR	21-APR-1999;	PR	20-JUL-1999;	99US-0144632P.
PR	23-APR-1999;	PR	20-JUL-1999;	99US-0144884P.
PR	23-APR-1999;	PR	21-JUL-1999;	99US-0144814P.
PR	28-APR-1999;	PR	21-JUL-1999;	99US-0145086P.
PR	30-APR-1999;	PR	21-JUL-1999;	99US-0145088P.
PR	30-APR-1999;	PR	22-JUL-1999;	99US-0145085P.
PR	04-MAY-1999;	PR	22-JUL-1999;	99US-0145087P.
PR	05-MAY-1999;	PR	22-JUL-1999;	99US-0145089P.
PR	06-MAY-1999;	PR	22-JUL-1999;	99US-0145192P.
PR	07-MAY-1999;	PR	23-JUL-1999;	99US-0145145P.
PR	07-MAY-1999;	PR	23-JUL-1999;	99US-0145224P.
PR	11-MAY-1999;	PR	23-JUL-1999;	99US-0145276P.
PR	14-MAY-1999;	PR	26-JUL-1999;	99US-0145913P.
PR	14-MAY-1999;	PR	27-JUL-1999;	99US-0145918P.
PR	14-MAY-1999;	PR	27-JUL-1999;	99US-0145918P.
PR	18-MAY-1999;	PR	28-JUL-1999;	99US-0145951P.
PR	19-MAY-1999;	PR	28-JUL-1999;	99US-0145951P.
PR	20-MAY-1999;	PR	02-AUG-1999;	99US-0146388P.
PR	21-MAY-1999;	PR	02-AUG-1999;	99US-0146389P.
PR	24-MAY-1999;	PR	02-AUG-1999;	99US-0146389P.
PR	25-MAY-1999;	PR	03-AUG-1999;	99US-0147038P.
PR	27-MAY-1999;	PR	04-AUG-1999;	99US-0147204P.
PR	28-MAY-1999;	PR	04-AUG-1999;	99US-0147302P.
PR	01-JUN-1999;	PR	05-AUG-1999;	99US-0147392P.
PR	03-JUN-1999;	PR	05-AUG-1999;	99US-0147260P.
PR	04-JUN-1999;	PR	06-AUG-1999;	99US-0147303P.
PR	07-JUN-1999;	PR	06-AUG-1999;	99US-0147463P.
PR	08-JUN-1999;	PR	09-AUG-1999;	99US-0147493P.
PR	10-JUN-1999;	PR	09-AUG-1999;	99US-0147935P.
PR	10-JUN-1999;	PR	10-AUG-1999;	99US-0148317P.
PR	14-JUN-1999;	PR	11-AUG-1999;	99US-0148319P.
PR	16-JUN-1999;	PR	12-AUG-1999;	99US-0148341P.
PR	16-JUN-1999;	PR	13-AUG-1999;	99US-0148565P.
PR	17-JUN-1999;	PR	13-AUG-1999;	99US-0148684P.
PR	18-JUN-1999;	PR	16-AUG-1999;	99US-0149368P.
PR	18-JUN-1999;	PR	17-AUG-1999;	99US-0149175P.
PR	18-JUN-1999;	PR	18-AUG-1999;	99US-0149426P.
PR	18-JUN-1999;	PR	20-AUG-1999;	99US-0149722P.
PR	18-JUN-1999;	PR	20-AUG-1999;	99US-0149723P.
PR	18-JUN-1999;	PR	23-AUG-1999;	99US-0149929P.
PR	18-JUN-1999;	PR	23-AUG-1999;	99US-0149930P.
PR	18-JUN-1999;	PR	25-AUG-1999;	99US-0150566P.
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PR 27-AUG-1999; 99US-0151080P.
PR 30-AUG-1999; 99US-0151303P.
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PR 01-SEP-1999; 99US-0151930P.
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PR 13-SEP-1999; 99US-0153758P.
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PR 16-SEP-1999; 99US-0154039P.
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PR 23-SEP-1999; 99US-0155486P.
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PR 28-OCT-1999; 99US-0161920P.
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PR 29-OCT-1999; 99US-0162142P.

Query Match 100.0%; Score 19; DB 3; Length 85;
Best Local Similarity 100.0%; Pred. No. 3.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGGV 4
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74 AGGV 77

RESULT 224

AGG32676
ID AGG32676 standard; protein; 85 AA.

XX AAG32676;

XX 17-OCT-2000 (first entry)

DE Zea mays protein fragment SEQ ID NO: 39466.

XX Protein identification; signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
XX termination sequence; corn.

OS Zea mays subsp. mays.

XX EP1033405-A2.

XX 06-SEP-2000.

PF 25-FEB-2000; 2000EP-00301439.

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PR 29-OCT-1999; 99US-0162142P.

Query Match 100.0%; Score 19; DB 3; Length 85;
Best Local Similarity 100.0%; Pred. No. 3 6e+03; Indels 0; Gaps 0;
Matches 4; Conservative 0; Mismatches 0;

QY 1 AGGV 4
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DB 74 AGGV 77

RESULT 225
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ID AAG25324 standard; protein; 85 AA.
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AC AAG25324;
XX
DT 17-OCT-2000 (first entry)
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DE Zea mays protein fragment SEQ ID NO: 29341.
XX
KW Protein identification; signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
KW termination sequence; corn.
XX
OS Zea mays subsp. mays.
XX
PN BP1033405-A2.
XX
XX 06-SEP-2000.
PD
XX 25-FEB-2000; 2000EP-00301439.
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PR 29-OCT-1999; 99US-0162142P.

Query Match 100.0%; Score 19; DB 3; Length 85;
Best Local Similarity 100.0%; Pred. No. 3.6e+03; Indels 0; Gaps 0;
Matches 4; Conservative 0; Mismatches 0;

QY 1 AAGV 4
Db 74 AAGV 77

RESULT 226

AAU52346
ID AAU52346 standard; protein; 85 AA.

XX AAU52346;

DT 27-FEB-2002 (first entry)

XX Propionibacterium acnes immunogenic protein #13242.

XX SAPHO syndrome; synovitis; acne; pustulosis; hypertosis; osteomyelitis;
KW uveitis; endophthalmitis; bone; joint; central nervous system; ELISA;
KW inflammatory lesion; acne vulgaris; enzyme linked immunosorbent assay;
KW dermatological; osteopathic; neuroprotectant.

XX Propionibacterium acnes.

OS WO200181581-A2.

PN 01-NOV-2001.

PD 20-APR-2001; 2001WO-US012865.

PF 21-APR-2000; 2000US-0199047P.

PR 02-JUN-2000; 2000US-0208841P.

PR 07-JUL-2000; 2000US-0216747P.

XX (CORI-) CORIXA CORP.

XX Skeiky YAM, Persing DH, Mitcham JL, Wang SS, Bhactia A;
PI L'maisonneuve J, Zhang Y, Jen S, Carter D;
XX WPI; 2001-616774/71.
DR N-PSDB; AAS59554.
XX Propionibacterium acnes polypeptides and nucleic acids useful for
PT vaccinating against and diagnosing infections, especially useful for
PT treating acne vulgaris.

XX Example 1; SEQ ID NO 13541; 1069pp; English.

CC Sequences AAU39105-AAU68017 represent Propionibacterium acnes immunogenic
CC polypeptides. The proteins and their associated DNA sequences are used in
CC the treatment, prevention and diagnosis of medical conditions caused by
CC P. acnes. The disorders include SAPHO syndrome (synovitis, acne,
CC pustulosis, hypertosis and osteomyelitis), uveitis and endophthalmitis.
CC P. acnes is also involved in infections of bone, joints and the central
CC nervous system, however it is particularly involved in the inflammatory
CC lesions associated with acne vulgaris. A method for detecting the
CC presence or absence of P. acnes in a patient comprises contacting a
CC sample with a binding agent that binds to the proteins of the invention
CC and determining the amount of bound protein in the sample. The
CC polypeptides may be used as antigens in the production of antibodies
CC specific for P. acnes proteins. These antibodies can be used to
CC downregulate expression and activity of P. acnes polypeptides and
CC therefore treat P. acnes infections. The antibodies may also be used as
CC diagnostic agents for determining P. acnes presence, for example, by
CC enzyme linked immunosorbent assay (ELISA). Note: The sequence data for
CC this patent did not form part of the printed specification, but was
CC obtained in electronic format directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences

XX Sequence 85 AA;

Query Match 100.0%; Score 19; DB 4; Length 85;
Best Local Similarity 100.0%; Pred. No. 3.6e+03; Indels 0; Gaps 0;
Matches 4; Conservative 0; Mismatches 0;

QY 1 AAGV 4
Db 58 AAGV 61

RESULT 227

ABP62928
ID ABP62928 standard; protein; 85 AA.

XX ABP62928;

DT 14-OCT-2002 (first entry)

XX Human polypeptide SEQ ID NO 365.

XX Human; vulnery; dermatological; neuroprotective; nootropic; cancer;
KW antiparkinsonian; immunostimulant; cytoskeletal; immunosuppressive;
KW antidiabetic; antiallergic; gene therapy; wound healing; tissue repair;
KW burn; central nervous system disorder; Alzheimer's disease;
KW Parkinson's disease; Huntington's disease; immune disorder;
KW autoimmune disorder; multiple sclerosis; diabetes; allergy.

OS Homo sapiens.

PN WO200218424-A2.

PD 07-MAR-2002.

PF 31-AUG-2001; 2001WO-US027093.

PR 01-SEP-2000; 2000US-00654935.

XX (HYSB-) HYSEQ INC.

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XX Tang YT, Asundi V, Zhou P, Xue AJ, Ren F, Zhang J, Wang J;
PI Zhao QA, Wang D, Liu C, Drmanac KT, Wehrman T;
XX WPI; 2002-583321/62.
DR N-PSDB; ABQ93407.
XX
XX New polynucleotide and polypeptides, useful for treatment and diagnosis
PT of Alzheimer's, Parkinson's, Huntington's, amyotrophic lateral
PT sclerosis, immune deficiencies, cancer, autoimmune disorders, multiple
PT sclerosis, diabetes and allergies.
PS
XX Claim 20; SEQ ID NO 365; 284bp + Sequence Listing; English.
XX
XX The invention relates to an isolated polynucleotide (I) comprising one of
CC 245 sequences (ABQ93288-ABQ93532). Treating a condition comprising
CC administering to a mammalian subject a composition comprising the protein
CC (II) encoded by (I) (ABP62809-ABP63053) or an antibody (III) to (II).
CC (I), (II) and (III) are useful for diagnostic evaluation of disorders.
CC (I) is useful for gene therapy of diseases and (II) can be used for
CC therapeutic treatment. Diseases that may be treated include wound healing
CC and tissue repair, burns, central nervous system disorders (e.g.
CC Alzheimer's, Parkinson's, Huntington's and amyotrophic lateral
CC sclerosis), immune deficiencies, cancer, autoimmune disorders, multiple
CC sclerosis, diabetes and allergies. Note: The sequence data for this
CC patent did not form part of the printed specification, but was obtained
CC in electronic format directly from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
SQ
XX Sequence 85 AA;
XX
XX Query Match 100.0%; Score 19; DB 5; Length 85;
XX Best Local Similarity 100.0%; Pred. No. 3.6e+03;
XX Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1 AOGV 4
XX ||||
XX 44 AOGV 47
XX
XX RESULT 228
XX ABM48865
XX ID ABM48865 standard; protein; 85 AA.
XX
XX ABM48865;
XX
XX 20-OCT-2003 (first entry)
XX
XX Propionibacterium acnes predicted ORF-encoded polypeptide #13541.
XX
XX Acne vulgaris; antiacneborrhoelc; dermatological; antibacterial;
XX immunostimulant; immune response; vaccine.
XX
XX Propionibacterium acnes.
XX
XX WO2003033515-A1.
XX
XX 24-APR-2003.
XX
XX 11-OCT-2002; 2002WO-US032727.
XX
XX 15-OCT-2001; 2001US-00978825.
XX
XX (CORI-) CORIXA CORP.
XX
XX Mitcham JL, Skeiky YAW, Persing DH, Bhatia A, Maisonneuve JL;
PI Zhang Y, Wang S, Jen S, Lodes MJ, Benson DR, Jones R, Carter D;
PI Batch B, Valilieve-Douglase J;
XX
XX WPI; 2003-381789/36.
XX
XX N-PSDB; ACF64483.
XX
XX New Propionibacterium acnes polypeptides and polynucleotides encoding the

```

```

PT polypeptide, useful for diagnosing, preventing or treating acne vulgaris,
PT or for stimulating an immune response specific for a P. acnes protein.
XX
XX Example 1; SEQ ID NO 13541; 1481bp; English.
XX
XX The invention relates to an isolated polynucleotide (ACF64435-ACF64733)
CC encoding a Propionibacterium acnes protein. The invention also relates to
CC polypeptides encoded by the polynucleotides (ABM35624-ABM64536) and to
CC immunogenic fragments of P. acnes polypeptides. The invention
CC additionally encompasses expression vectors and host cells comprising a
CC polynucleotide of the invention; antibodies against polypeptides of the
CC invention; fusion proteins comprising a polypeptide of the invention; a
CC method for stimulating an immune response specific for a P. acnes
CC polypeptide and an isolated T cell population comprising T cells prepared
CC via this method; a vaccine composition (comprising P. acnes polypeptides,
CC polynucleotides, antibodies, fusion proteins, T cell populations, or
CC antigen-presenting cells that express the polypeptide); a method and kit
CC for detecting or determining the presence or absence of P. acnes in a
CC patient; and a method for inhibiting the development of P. acnes in a
CC patient. The P. acnes polypeptides, polynucleotides, antibodies, fusion
CC proteins, T cell populations or antigen-presenting cells that express the
CC polypeptides are useful for diagnosing, preventing or treating acne
CC vulgaris, or for stimulating an immune response specific for a P. acnes
CC protein. The polynucleotides can also be used as probes or primers for
CC nucleic acid hybridisation. The vaccine composition is useful for the
CC stimulation of an immune response against P. acnes, or for treating acne,
CC and the kit is useful for performing a diagnostic assay. The present
CC sequence represents a polypeptide predicted to be encoded by an ORF (open
CC reading frame) contained within the P. acnes polynucleotides of the
CC invention. Note: The sequence data for this patent did not form part of
CC the printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 85 AA;
XX
XX Query Match 100.0%; Score 19; DB 6; Length 85;
XX Best Local Similarity 100.0%; Pred. No. 3.6e+03;
XX Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1 AOGV 4
XX ||||
XX 58 AOGV 61
XX
XX RESULT 229
XX ADQ75906
XX ID ADQ75906 standard; protein; 85 AA.
XX
XX ADQ75906;
XX
XX 23-SEP-2004 (first entry)
XX
XX Lysine decarboxylase fragment used to create consensus protein #15.
XX
XX amino acid production; threonine; lysine; food; animal feed; cosmetics;
XX enzyme; lysine decarboxylase.
XX
XX Unidentified.
XX
XX WO2004057003-A2.
XX
XX 08-JUL-2004.
XX
XX 19-DEC-2003; 2003WO-EP014649.
XX
XX 20-DEC-2002; 2002DR-01061188.
XX
XX (META-) METANOMICS GMBH & CO KGAA.
XX
XX Schmitz O, Puzio P, Blau A, Looser R, Wendel B, Kamlage B;
PI Plesch G;
XX
XX WPI; 2004-517685/49.
XX

```

XX Method for preparing amino acids, useful e.g. in foods, cosmetics and
PT pharmaceuticals, by growing transgenic organisms that express a protein
PT that degrades threonine and/or lysine.
XX
XX Disclosure; Fig 2; 110pp; German.
XX
CC The present invention relates to a method for preparing amino acids in
CC transgenic organisms by introducing and expressing a nucleic acid that
CC encodes a protein able to degrade threonine (thr) and/or lysine (lys), or
CC increases degradation of thr and/or lys in the organism. The amino acids,
CC preferably methionine, homoserine and lysine, or the organisms that
CC produce them, are used in preparation of foods, animal feeds, cosmetic or
CC pharmaceuticals (e.g. Met has antidepressant activity), also as synthetic
CC intermediates. The present sequence is a fragment of a lysine
CC decarboxylase enzyme used to create a consensus sequence for the protein.
XX
SQ Sequence 85 AA;
XX
Query Match 100.0%; Score 19; DB 8; Length 85;
Best Local Similarity 100.0%; Pred. No. 3.6e+03; Indels 0; Gaps 0;
Matches 4; Conservative 0; Mismatches 0;
Qy 1 AOCV 4
1111
Db 12 AOCV 15
XX
RESULT 230
ADQ75905
XX ADQ75905 standard; protein; 85 AA.
XX
XX ADQ75905;
XX
XX 23-SEP-2004 (first entry)
XX
XX Lysine decarboxylase fragment used to create consensus protein #14.
XX
XX amino acid production; threonine; lysine; food; animal feed; cosmetics;
XX enzyme; lysine decarboxylase.
XX
XX Unidentified.
XX
XX WO2004057003-A2.
XX
XX 08-JUL-2004.
XX
XX 19-DEC-2003; 2003WO-EP014649.
XX
XX 20-DEC-2002; 2002DE-01061188.
XX
XX (META-) METANOMICS GMBH & CO KGAA.
XX
XX Schmitz O, Puzio P, Blau A, Looser R, Wendel B, Kamlage B;
PI Plesch G;
XX
XX WPI; 2004-517665/49.
XX
XX Method for preparing amino acids, useful e.g. in foods, cosmetics and
PT pharmaceuticals, by growing transgenic organisms that express a protein
PT that degrades threonine and/or lysine.
XX
XX Disclosure; Fig 2; 110pp; German.
XX
XX The present invention relates to a method for preparing amino acids in
XX transgenic organisms by introducing and expressing a nucleic acid that
XX encodes a protein able to degrade Threonine (Thr) and/or Lysine (Lys), or
XX increases degradation of Thr and/or Lys in the organism. The amino acids,
XX preferably methionine, homoserine and lysine, or the organisms that
XX produce them, are used in preparation of foods, animal feeds, cosmetic or
XX pharmaceuticals (e.g. Met has antidepressant activity), also as synthetic
XX intermediates. The present sequence is a fragment of a lysine
XX decarboxylase enzyme used to create a consensus sequence for the protein.

XX
SQ Sequence 85 AA;
XX
Query Match 100.0%; Score 19; DB 8; Length 85;
Best Local Similarity 100.0%; Pred. No. 3.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 AOCV 4
1111
Db 12 AOCV 15
XX
RESULT 231
ADY12627
XX ADY12627 standard; protein; 85 AA.
XX
XX ADY12627;
XX
XX 21-APR-2005 (first entry)
XX
XX
XX Plant full length insert polypeptide seqid 68442.
XX
XX plant protectant; plant growth regulant; gene therapy; plant;
XX recombinant DNA construct; physical array; plant breeding marker;
XX cold tolerance; heat tolerance; drought tolerance; herbicide tolerance;
XX extreme osmotic condition; pathogen tolerance; pest tolerance;
XX growth rate; cell cycle pathway; disease resistance;
XX galactomanan production; lignin production; plant growth regulator;
XX yield; plant growth; plant development; seed oil; protein yield;
XX protein content.
XX
XX Unidentified.
XX
XX US2004034888-A1.
XX
XX 19-FEB-2004.
XX
XX 28-APR-2003; 2003US-00425114.
XX
XX 06-MAY-1999; 99US-00304517.
XX
XX 05-NOV-2001; 2001US-00985678.
XX
XX (LIU/) LIU J.
XX (ZHOU/) ZHOU Y.
XX (KOVA/) KOVALIC D K.
XX (SCRE/) SCREEN S E.
XX (TABAS/) TABASKA J E.
XX (CAOY/) CAO Y.
XX
XX Liu J, Zhou Y, Kovalic DK, Screen SE, Tabaska JE, Cao Y;
PI
XX WPI; 2004-180133/17.
XX
XX New recombinant DNA construct, useful for improving plant tolerance to
PT cold, heat, drought, herbicides, extreme osmotic conditions, pathogens or
PT pests, for conferring increased resistance to plant disease, or for
PT improving yield.
XX
XX Claim 1; SEQ ID NO 68442; 15pp; English.
XX
XX The invention describes a recombinant DNA construct comprising a
CC polynucleotide consisting of a sequence encoding an amino acid sequence
CC available in electronic form from the US patent office at
CC ftp.segdata.uspro.gov/sequence.html?DocID:2004034888. The polynucleotide
CC of the invention are also useful in physical arrays of molecules and as
CC plant breeding markers. The recombinant DNA construct is useful for
CC improving plant tolerance to cold, heat, drought, herbicides, extreme
CC osmotic conditions, pathogens or pests, for manipulating growth rate in
CC plant cells by modification of the cell cycle pathway, for conferring
CC increased resistance to plant disease, for producing galactomanan,
CC lignin or plant growth regulators, for increasing the rate of homologous
CC recombination in plants, for improving yield by modification of
CC photosynthesis or carbohydrate, nitrogen or phosphorus use and/or uptake

CC or by providing improved plant growth and development under at least one
CC stress condition or for modifying seed oil or protein yield and/or
CC content. This is the amino acid sequence of a plant full length insert
CC polypeptide that can be used in the recombinant DNA construct of the
CC invention.

XX
SQ Sequence 85 AA;

Query Match 100.0%; Score 19; DB 8; Length 85;
Best Local Similarity 100.0%; Pred. No. 3.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
Db 8 AOGV 11

RESULT 232

ABM94141
ID ABM94141 standard; protein, 85 AA.

XX
AC ABM94141;

XX
DT 02-JUN-2005 (first entry)

XX
DE M. xanthus protein sequence, seq id 13340.

XX
KM Transgenic plant; DNA replication; gene regulation; gene expression.

XX
OS Myxococcus xanthus.

XX
FN US6833447-B1.

XX
PD 21-DEC-2004.

XX
PF 10-JUL-2001; 2001US-00902540.

XX
PR 10-JUL-2000; 2000US-0217883P.

XX
PA (MONS) MONSANTO TECHNOLOGY LLC.

XX
PI Goldman BS, Hinkle GJ, Slater SC, Wiegand RC;

XX
DR WPI; 2005-028716/03.

XX
PT New substantially purified Myxococcus xanthus nucleic acid molecule
PT encoding a nitrite reductase, useful for determining gene expression,
PT identifying mutations in a gene of interest, and for constructing
PT mutations in a gene of interest.

XX
PS Example 2; SEQ ID NO 13340; 25pp; English.

XX
CC The invention relates to a substantially purified nucleic acid molecule
CC encoding a nitrite reductase of SEQ ID NO. 11926. Further disclosed is a
CC recombinant DNA construct for expression of a nitrite reductase gene in a
CC plant cell, and a plant cell comprising the recombinant DNA construct.
CC The nucleic acid is useful for determining gene expression, identifying
CC mutations in a gene of interest, and for constructing mutations in a gene
CC of interest. Sequences given in records for SEQ IDs 9692-16825 represent
CC a group of 7134 Myxococcus xanthus proteins and peptides. Note: The
CC sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from USPTO
XX

XX
SQ Sequence 85 AA;

Query Match 100.0%; Score 19; DB 9; Length 85;
Best Local Similarity 100.0%; Pred. No. 3.6e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
Db 55 AOGV 58

RESULT 233

AAU47746
ID AAU47746 standard; protein, 86 AA.

XX
AC AAU47746;

XX
DT 27-FEB-2002 (first entry)

XX
DE Propionibacterium acnes immunogenic protein #8642.

XX
KM SAPHO syndrome; synovitis; acne; pustulosis; hypertosis; osteomyelitis;
KM uveitis; endophthalmitis; bone; joint; central nervous system; ELISA;
KM inflammatory lesion; acne vulgaris; enzyme linked immunosorbent assay;
KM dermatological; osteopathic; neuroprotectant.

XX
OS Propionibacterium acnes.

XX
PN WO200181581-A2.

XX
PD 01-NOV-2001.

XX
PF 20-APR-2001; 2001WO-US012865.

XX
PR 21-APR-2000; 2000US-0199047P.

XX
PR 02-JUN-2000; 2000US-0208841P.

XX
PR 07-JUL-2000; 2000US-0216747P.

XX
PA (CORI-) CORIXA CORP.

XX
PI Skeiky YAW, Persing DH, Mitcham JL, Wang SS, Bhatia A;

XX
PI L'maisonneuve J, Zhang Y, Jen S, Carter D;

XX
DR WPI; 2001-616774/71.

XX
DR N-PSDB; AAS59539.

XX
PS Example 1; SEQ ID NO 8941; 1069pp; English.

XX
CC Sequences AAU39105-AAU68017 represent Propionibacterium acnes immunogenic
CC polypeptides. The proteins and their associated DNA sequences are used in
CC the treatment, prevention and diagnosis of medical conditions caused by
CC P. acnes. The disorders include SAPHO syndrome (synovitis, acne,
CC pustulosis, hypertosis and osteomyelitis), uveitis and endophthalmitis.
CC P. acnes is also involved in infections of bone, joints and the central
CC nervous system, however it is particularly involved in the inflammatory
CC lesions associated with acne vulgaris. A method for detecting the
CC presence or absence of P. acnes in a patient comprises contacting a
CC sample with a binding agent that binds to the proteins of the invention
CC and determining the amount of bound protein in the sample. The
CC polypeptides may be used as antigens in the production of antibodies
CC specific for P. acnes proteins. These antibodies can be used to
CC downregulate expression and activity of P. acnes polypeptides and
CC therefore treat P. acnes infections. The antibodies may also be used as
CC diagnostic agents for determining P. acnes presence, for example, by
CC enzyme linked immunosorbent assay (ELISA). Note: The sequence data for
CC this patent did not form part of the printed specification, but was
CC obtained in electronic format directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX

XX
SQ Sequence 86 AA;

Query Match 100.0%; Score 19; DB 4; Length 86;
Best Local Similarity 100.0%; Pred. No. 3.7e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
|||
Db 9 AOGV 12

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AOGV 4
|||
Db 75 AOGV 78

RESULT 236

ABM44265
ID ABM44265 standard; protein; 86 AA.

XX ABM44265;

XX 20-OCT-2003 (first entry)

XX Propionibacterium acnes predicted ORF-encoded polypeptide #8941.

XX Acne vulgaris; antiseborrheic; dermatological; antibacterial;

KW immunostimulant; immune response; vaccine.

XX Propionibacterium acnes.

XX WO2003033515-A1.

XX 24-APR-2003.

XX 11-OCT-2002; 2002WO-US032727.

XX 15-OCT-2001; 2001US-00978825.

XX (CORI-) CORIXA CORP.

XX Mitcham JL, Skeiky YAW, Persing DH, Bhatia A, Maisonneuve JL;

P1 Zhang Y, Wang S, Jen S, Lodes MJ, Benson DR, Jones R, Carter D;

P1 Barth B, Vallieue-Douglase J;

XX WPI; 2003-381789/36.

DR N-PSDB; ACF64468.

XX New Propionibacterium acnes polypeptides and polynucleotides encoding the
PT polypeptide, useful for diagnosing, preventing or treating acne vulgaris,
PT or for stimulating an immune response specific for a P. acnes protein.

XX Example 1; SEQ ID NO 8941; 1481bp; English.

XX The invention relates to an isolated polynucleotide (ACF64435-ACF64733)
CC encoding a Propionibacterium acnes protein. The invention also relates to
CC polypeptides encoded by the polynucleotides (ABM35624-ABM64536) and to
CC immunogenic fragments of P. acnes polypeptides. The invention
CC additionally encompasses expression vectors and host cells comprising a
CC polynucleotide of the invention; antibodies against polypeptides of the
CC invention; fusion proteins comprising a polypeptide of the invention; a
CC method for stimulating an immune response specific for a P. acnes
CC polypeptide and an isolated T cell population comprising T cells prepared
CC via this method; a vaccine composition (comprising P. acnes polypeptides,
CC polynucleotides, antibodies, fusion proteins, T cell populations, or
CC antigen-presenting cells that express the polypeptide); a method and kit
CC for detecting or determining the presence or absence of P. acnes in a
CC patient; and a method for inhibiting the development of P. acnes in a
CC patient. The P. acnes polypeptides, polynucleotides, antibodies, fusion
CC proteins, T cell populations or antigen-presenting cells that express the
CC polypeptides are useful for diagnosing, preventing or treating acne
CC vulgaris, or for stimulating an immune response specific for a P. acnes
CC protein. The polynucleotides can also be used as probes or primers for
CC nucleic acid hybridisation. The vaccine composition is useful for the
CC stimulation of an immune response against P. acnes, or for treating acne,
CC and the kit is useful for performing a diagnostic assay. The present
CC sequence represents a polypeptide predicted to be encoded by an ORF (open
CC reading frame) contained within the P. acnes polynucleotides of the
CC invention. Note: The sequence data for this patent did not form part of
CC the printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pct_sequences

SEQ Sequence 86 AA;

Query Match 100.0%; Score 19; DB 6; Length 86;
Best Local Similarity 100.0%; Pred. No. 3.7e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AOGV 4
|||
Db 9 AOGV 12

RESULT 237

ADR87224
ID ADR87224 standard; protein; 86 AA.

XX ADR87224;

XX 16-DEC-2004 (first entry)

XX Dust mite allergen Der p 1 fragment SEQ ID NO:13.

XX dust mite; allergen; Der p 1; T-cell response; IgE; immunoglobulin E;

KW immune response; antiallergic; gene therapy; vaccine.

XX Dermatophagoides sp.

XX WO2004081028-A2.

XX 23-SEP-2004.

XX 15-MAR-2004; 2004WO-IB001300.

XX 14-MAR-2003; 2003US-0455004P.

XX 12-MAR-2004; 2004US-00799514.

XX (UWLA-) UNIV LAUSANNE.

XX Speriini F;

XX WPI; 2004-668931/65.

XX New compositions including contiguous overlapping peptide fragments that
PT form an entire amino acid sequence of an allergen (e.g. bee venom or
PT birch pollen allergen), useful for preventing or treating IgE-mediated
PT allergies.

XX Claim 4; SEQ ID NO 13; 82bp; English.

XX The invention relates to novel compositions including contiguous
CC overlapping peptide fragments which together form an entire amino acid
CC sequence of an allergen, where the fragments are capable of inducing a T-
CC cell response in patients who are hypersensitive to the allergen. The
CC contiguous overlapping peptide fragments further result in lower levels
CC of IgE stimulation activity. The lower levels of IgE stimulation activity
CC are zero or weak. The contiguous overlapping peptide fragments further
CC result in a decrease in T-cell response upon subsequent exposure to the
CC allergen, thus, modulating an immune response in the patients, who are
CC hypersensitive to the allergen. A composition of the invention has
CC antiallergic activity, and may have a use in gene therapy, and as a
CC vaccine. The composition and methods are useful for preventing or
CC treating IgE-mediated allergies. The present sequence represents a
CC fragment of an allergen of the invention, dust mite Der p 1.

XX Sequence 86 AA;

.. Query Match 100.0%; Score 19; DB 8; Length 86;
Best Local Similarity 100.0%; Pred. No. 3.7e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AOGV 4
|||
Db 44 AOGV 47

RESULT 238
AAU62248
ID AAU62248 standard; protein; 87 AA.
XX
AC AAU62248;
XX
DT 27-FEB-2002 (first entry)
XX
DE Propionibacterium acnes immunogenic protein #23144.
XX
XX SAPHO syndrome; synovitis; acne; pustulosis; hypertosis; osteomyelitis;
KW uveitis; endophthalmitis; bone; joint; central nervous system; ELISA;
KM inflammatory lesion; acne vulgaris; enzyme linked immunosorbent assay;
KM dermatological; osteopathic; neuroprotectant.
XX
OS Propionibacterium acnes.
XX
PN W0200181581-A2.
XX
PD 01-NOV-2001.
XX
PF 20-APR-2001; 2001WO-US012865.
XX
PR 21-APR-2000; 2000US-0199047P.
PR 02-JUN-2000; 2000US-0208841P.
PR 07-JUL-2000; 2000US-0216747P.
XX
PA (CORI-) CORIXA CORP.
XX
PI Skeiky YAM, Persing DH, Mitcham JL, Wang SS, Bhatia A;
PI L'maisonneuve J, Zhang Y, Jen S, Carter D;
DR WPI; 2001-616774/71.
XX
DR N-PSDB; AAS59624.
XX
PT Propionibacterium acnes polypeptides and nucleic acids useful for
PT vaccinating against and diagnosing infections, especially useful for
PT treating acne vulgaris.
XX
XX
XX Example 1; SEQ ID NO 23443; 1069pp; English.
XX
CC Sequences AAU39105-AAU68017 represent Propionibacterium acnes immunogenic
CC polypeptides. The proteins and their associated DNA sequences are used in
CC the treatment, prevention and diagnosis of medical conditions caused by
CC P. acnes. The disorders include SAPHO syndrome (synovitis, acne,
CC pustulosis, hypertosis and osteomyelitis), uveitis and endophthalmitis.
CC P. acnes is also involved in infections of bone, joints and the central
CC nervous system, however it is particularly involved in the inflammatory
CC lesions associated with acne vulgaris. A method for detecting the
CC presence or absence of P. acnes in a patient comprises contacting a
CC sample with a binding agent that binds to the proteins of the invention
CC and determining the amount of bound protein in the sample. The
CC polypeptides may be used as antigens in the production of antibodies
CC specific for P. acnes proteins. These antibodies can be used to
CC downregulate expression and activity of P. acnes polypeptides and
CC therefore treat P. acnes infections. The antibodies may also be used as
CC diagnostic agents for determining P. acnes presence, for example, by
CC enzyme linked immunosorbent assay (ELISA). Note: The sequence data for
CC this patent did not form part of the printed specification, but was
CC obtained in electronic format directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 87 AA;
SQ

Query Match 100.0%; Score 19; DB 4; Length 87;
Best Local Similarity 100.0%; Pred. No. 3.7e+03; Mismatches 0; Indels 0;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AOGV 4
|||
DB 42 AOGV 45

RESULT 239
ABM58767
ID ABM58767 standard; protein; 87 AA.
XX
AC ABM58767;
XX
DT 20-OCT-2003 (first entry)
XX
DE Propionibacterium acnes predicted ORF-encoded polypeptide #23443.
XX
XX Acne vulgaris; antiseborrheic; dermatological; antibacterial;
KW immunostimulant; immune response; vaccine.
XX
OS Propionibacterium acnes.
XX
PN W02003033515-A1.
XX
PD 24-APR-2003.
XX
PF 11-OCT-2002; 2002WO-US032727.
XX
PR 15-OCT-2001; 2001US-00978825.
XX
PA (CORI-) CORIXA CORP.
XX
PI Mitcham JL, Skeiky YAM, Persing DH, Bhatia A, Maisonneuve JL;
PI Zhang Y, Wang S, Jen S, Lodes MJ, Benson DR, Jones R, Carter D;
PI Barth B, Vailleve-Douglas J;
DR WPI; 2003-381789/36.
XX
DR N-PSDB; ACF64553.
XX
PT New Propionibacterium acnes polypeptides and polynucleotides encoding the
PT polypeptide, useful for diagnosing, preventing or treating acne vulgaris,
PT or for stimulating an immune response specific for a P. acnes protein.
XX
XX
XX Example 1; SEQ ID NO 23443; 1481pp; English.
XX
CC The invention relates to an isolated polynucleotide (ACF64435-ACF64733)
CC encoding a Propionibacterium acnes protein. The invention also relates to
CC polypeptides encoded by the polynucleotides (ABM5624-ABM64536) and to
CC immunogenic fragments of P. acnes polypeptides. The invention
CC additionally encompasses expression vectors and host cells comprising a
CC polynucleotide of the invention; antibodies against polypeptides of the
CC invention; fusion proteins comprising a polypeptide of the invention; a
CC method for stimulating an immune response specific for a P. acnes
CC polypeptide and an isolated T cell population comprising P. acnes polypeptides,
CC via this method; a vaccine composition (comprising P. acnes polypeptides,
CC polynucleotides, antibodies, fusion proteins, T cell populations, or
CC antigen-presenting cells that express the polypeptide); a method and kit
CC for detecting or determining the presence or absence of P. acnes in a
CC patient; and a method for inhibiting the development of P. acnes in a
CC patient. The P. acnes polypeptides, polynucleotides, antibodies, fusion
CC proteins, T cell populations or antigen-presenting cells that express the
CC polypeptides are useful for diagnosing, preventing or treating acne
CC vulgaris, or for stimulating an immune response specific for a P. acnes
CC protein. The polynucleotides can also be used as probes or primers for
CC nucleic acid hybridisation. The vaccine composition is useful for the
CC stimulation of an immune response against P. acnes, or for treating acne,
CC and the kit is useful for performing a diagnostic assay. The present
CC sequence represents a polypeptide predicted to be encoded by an ORF (open
CC reading frame) contained within the P. acnes polynucleotides of the
CC invention. Note: The sequence data for this patent did not form part of
CC the printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 87 AA;
SQ

Query Match 100.0%; Score 19; DB 6; Length 87;
Best Local Similarity 100.0%; Pred. No. 3.7e+03; Mismatches 0; Indels 0; Gaps 0;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
 ||||
 DB 42 AOGV 45

RESULT 240

AAU54801

ID AAU54801 standard; protein; 88 AA.

AC AAU54801;

DT 27-FEB-2002 (first entry)

XX Propionibacterium acnes immunogenic protein #15697.

XX SAPHO syndrome; synovitis; acne; pustulosis; hypertosis; osteomyelitis;
 KW uveitis; endophthalmitis; bone; joint; central nervous system; ELISA;
 KW inflammatory lesion; acne vulgaris; enzyme linked immunosorbent assay;
 KW dermatological; osteopathic; neuroprotectant.

OS Propionibacterium acnes.

PN WO200181581-A2.

XX 01-NOV-2001.

XX 20-APR-2001; 2001WO-US012865.

XX 21-APR-2000; 2000US-0199047P.

XX 02-JUN-2000; 2000US-0208841P.

XX 07-JUL-2000; 2000US-0216747P.

XX (CORI-) CORIXA CORP.

PI Skeiky YAM, Persing DH, Mitcham JL, Wang SS, Bhatia A;

PI L'maisonmave J, Zhang Y, Jen S, Carter D;

DR N-PSDB; AAS59566.

XX Propionibacterium acnes polypeptides and nucleic acids useful for

PT vaccinating against and diagnosing infections, especially useful for

PT treating acne vulgaris.

XX Example 1; SEQ ID NO 15996; 10699P; English.

XX Sequences AAU39105-AAU68017 represent Propionibacterium acnes immunogenic
 CC polypeptides. The proteins and their associated DNA sequences are used in
 CC the treatment, prevention and diagnosis of medical conditions caused by
 CC P. acnes. The disorders include SAPHO syndrome (synovitis, acne,
 CC pustulosis, hypertosis and osteomyelitis), uveitis and endophthalmitis.
 CC P. acnes is also involved in infections of bone, joints and the inflammatory
 CC nervous system, however it is particularly involved in the inflammatory
 CC lesions associated with acne vulgaris. A method for detecting the
 CC presence or absence of P. acnes in a patient comprises contacting a
 CC sample with a binding agent that binds to the proteins of the invention
 CC and determining the amount of bound protein in the sample. The
 CC polypeptides may be used as antigens in the production of antibodies
 CC specific for P. acnes proteins. These antibodies can be used to
 CC downregulate expression and activity of P. acnes polypeptides and
 CC therefore treat P. acnes infections. The antibodies may also be used as
 CC diagnostic agents for determining P. acnes presence, for example, by
 CC enzyme linked immunosorbent assay (ELISA). Note: The sequence data for
 CC this patent did not form part of the printed specification, but was
 CC obtained in electronic format directly from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences

XX Sequence 88 AA;

Query Match 100.0%; Score 19; DB 4; Length 88;
 Best Local Similarity 100.0%; Pred. No. 3.8e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
 ||||
 DB 82 AOGV 85

RESULT 241

ABU60929

ID ABU60929 standard; protein; 88 AA.

AC ABU60929;

DT 08-MAY-2003 (first entry)

XX Lung specific protein (LSP) #32.

XX Human; gene therapy; vaccine; lung specific antigen; cancer diagnosis;
 KW cancer monitoring; cancer staging; cancer imaging; lung cancer;
 KW non-cancerous diseases of the lung; transgenic animal.

OS Homo sapiens.

PN WO200268633-A2.

XX 06-SEP-2002.

XX 21-NOV-2001; 2001WO-US043612.

XX 22-NOV-2000; 2000US-0252500P.

XX (DIAD-) DIADEXUS INC.

PI Maclna RA, Recipon H, Chen S, Sun Y, Liu C;

DR WPI; 2002-713376/77.

PT New isolated human nucleic acid molecule and polypeptide, useful for
 PT identifying, diagnosing, monitoring, staging, imaging and treating lung
 PT cancer and non-cancerous diseases of the lung.

XX Claim 11; Page 328; 3899P; English.

XX The invention describes an isolated human nucleic acid (1) encoding any
 CC of 120-10-1533 residue amino acid sequences (S1), given in the
 CC specification, comprising any of 164 179-12421 base pair sequences (S2),
 CC given in the specification. The methods and compositions of the present
 CC invention are useful for identifying, diagnosing, monitoring, staging,
 CC imaging and treating lung cancer and non-cancerous diseases of the lung.
 CC They are also used for identifying lung tissue, monitoring and
 CC identifying and/or designing antagonists of the polypeptide of the
 CC invention, gene therapy, production of transgenic animals and production
 CC of engineered lung tissue for treatment and research. This is the amino
 CC acid sequence of a lung specific nucleic acid

XX Sequence 88 AA;

Query Match 100.0%; Score 19; DB 5; Length 88;
 Best Local Similarity 100.0%; Pred. No. 3.8e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AOGV 4
 ||||
 DB 69 AOGV 72

RESULT 242

ABM51320

ID ABM51320 standard; protein; 88 AA.

AC ABM51320;

DT 20-OCT-2003 (first entry)

XX Propionibacterium acnes predicted ORF-encoded polypeptide #15996.

```

XX Acne vulgaris; antiisborrhoic; dermatological; antibacterial;
KM immunostimulant; immune response; vaccine.
XX
XX Propionibacterium acne.
XX
XX WO2003033515-A1.
XX
XX 24-APR-2003.
XX
XX 11-OCT-2002; 2002WO-US032727.
XX
XX 15-OCT-2001; 2001US-00978825.
XX
XX (CORI-) CORIXA CORP.
XX
XX Mitcham JL, Skeiky YAW, Persing DH, Bhatia A, Maisonneuve JL,
PI Zhang Y, Wang S, Jen S, Lodes MJ, Benson DR, Jones R, Carter D,
PI Barth B, Vallette-Douglas J;
XX
XX WPI; 2003-381789/36.
XX
XX N-PSDB; ACF64495.
XX
XX New Propionibacterium acne polypeptides and polynucleotides encoding the
PT polypeptide, useful for diagnosing, preventing or treating acne vulgaris,
PT or for stimulating an immune response specific for a P. acne protein.
XX
XX Example 1; SEQ ID NO 15996; 1481pp; English.
XX
XX The invention relates to an isolated polynucleotide (ACF64435-ACF64733)
XX encoding a Propionibacterium acne protein. The invention also relates to
XX polypeptides encoded by the polynucleotides (ABM35624-ABM64536) and to
XX immunogenic fragments of P. acne polypeptides. The invention
XX additionally encompasses expression vectors and host cells comprising a
XX polynucleotide of the invention; antibodies against polypeptides of the
XX invention; fusion proteins comprising a polypeptide of the invention; a
XX method for stimulating an immune response specific for a P. acne
XX polypeptide and an isolated T cell population comprising T cells prepared
XX via this method; a vaccine composition (comprising P. acne polypeptides,
XX polynucleotides, antibodies, fusion proteins, T cell populations, or
XX antigen-presenting cells that express the polypeptide); a method and kit
XX for detecting or determining the presence or absence of P. acne in a
XX patient; and a method for inhibiting the development of P. acne in a
XX patient. The P. acne polypeptides, polynucleotides, antibodies, fusion
XX proteins, T cell populations or antigen-presenting cells that express the
XX polypeptides are useful for diagnosing, preventing or treating acne
XX vulgaris, or for stimulating an immune response specific for a P. acne
XX protein. The polynucleotides can also be used as probes or primers for
XX nucleic acid hybridisation. The vaccine composition is useful for the
XX stimulation of an immune response against P. acne, or for treating acne,
XX and the kit is useful for performing a diagnostic assay. The present
XX sequence represents a polypeptide predicted to be encoded by an ORF (open
XX reading frame) contained within the P. acne polynucleotides of the
XX invention. Note: The sequence data for this patent did not form part of
XX the printed specification, but was obtained in electronic format directly
XX from WIPO at ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 88 AA;
SQ

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Query Match 100.0%; Score 19; DB 6; Length 88;
Best Local Similarity 100.0%; Pred. No. 3.8e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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OY 1 ACGV 4
   ||||
Db 82 ACGV 85

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RESULT 243
AAV74147
ID AAV74147 standard; protein; 89 AA.
XX
XX AAV74147;
AC

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XX
XX 14-MAR-2000 (first entry)
XX
XX Human prostate tumor EST fragment derived protein #334.
XX
XX Pancreas; tumor; EST; expressed sequence tag; human; cytosolic;
XX treatment.
XX
XX Homo sapiens.
XX
XX DB19820190-A1.
XX
XX 04-NOV-1999.
XX
XX 26-APR-1998; 98DE-01020190.
XX
XX 28-APR-1998; 98DE-01020190.
XX
XX (META-) METAGEN GBS GENOMFORSCHUNG MBH.
XX
XX Rosenthal A, Specht T, Hinzmann B, Schmitt A, Pilarsky C, Dahl E,
PI WPI; 1999-621386/54.
XX
XX N-PSDB; AAZ52968.
XX
XX New human nucleic acid sequences from pancreatic tumors, and related
PT proteins.
XX
XX Claim 23; Page 448; 502pp; German.
XX
XX This invention describes novel polypeptides and their encoding nucleic
XX acids derived from human pancreatic tumor tissue which have cytostatic
XX activity. The sequences are also useful in producing pharmaceutical
XX compositions for treatment of pancreatic tumors. AAT73814-774252
XX represent protein fragments encoded by the human pancreatic tumor cDNA
XX library derived expressed sequence tag (EST) sequences represented in
XX AAZ52858-253014
XX
XX Sequence 89 AA;
SQ

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Query Match 100.0%; Score 19; DB 2; Length 89;
Best Local Similarity 100.0%; Pred. No. 3.8e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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```

OY 1 ACGV 4
   ||||
Db 32 ACGV 35

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RESULT 244
AAV59139
ID AAV59139 standard; protein; 89 AA.
XX
XX AAV59139;
XX
XX 08-MAR-2000 (first entry)
XX
XX Mouse serine/threonine kinase, PAK4 partial protein sequence.
XX
XX PAK4; serine/threonine kinase; GTPase; intracellular signal cascade; Rac;
XX Cdc42H; morphogenesis; mitogenesis; JNK; p38 MAP kinase; mouse;
XX actin polymerization; filopodia; cancer; arthritis.
XX
XX Mus sp.
XX
XX WO9963073-A1.
XX
XX 09-DEC-1999.
XX
XX 21-MAY-1999; 99WO-US011341.
XX
XX 21-MAY-1998; 98US-00082737.
XX

```

PA (UYCO) UNIV COLUMBIA NEW YORK.
 XX
 PI Minden A;
 XX
 DR WP1: 2000-072881/06.
 DR N-PSDB; AA240658.
 XX
 PT Novel mammalian nucleic acid useful for treating cancer and arthritis.
 PS Disclosure; Page 44; 95pp; English.
 XX
 CC The invention relates to an isolated mammalian nucleic acid that encodes
 CC PAK4, a novel serine/threonine kinase or its mutant homolog. PAK4 is an
 CC effector for the GTPases Rac and Cdc42Hs which are involved in
 CC intracellular signal cascades, morphogenesis and mitogenesis, and
 CC activate the JNK and p38 MAP kinase pathways. Inhibiting interaction of
 CC PAK4 with these enzymes will thus result in inhibition of actin
 CC polymerization and formation of filopodia. The PAK4 nucleic acid used for
 CC recombinant production of the protein, and as a source of probes for
 CC identifying homologous sequences and of (anti)sense oligonucleotides for
 CC inhibiting PAK4 expression. The protein, or its fragments, are used to
 CC raise specific antibodies and these are useful as ligands for therapeutic
 CC inhibition of interaction between PAK4 and its native binding partners.
 CC Inhibition of PAK4 activity or expression is used for treatment of cancer
 CC and arthritis. The present sequence represents the partial sequence of
 CC mouse PAK4
 XX
 SQ Sequence 89 AA;
 QY 1 ACGV 4
 DB 78 ACGV 81
 Query Match 100.0%; Score 19; DB 3; Length 89;
 Best Local Similarity 100.0%; Pred. No. 3.8e+03; Indels 0; Gaps 0;
 Matches 4; Conservative 0; Mismatches 0;
 RESULT 245
 ADP56448
 ID ADP56448 standard; protein; 89 AA.
 XX
 AC ADP56448;
 XX
 DT 18-NOV-2004 (first entry)
 XX
 DE Human PRO protein sequence SEQ ID NO:2424.
 XX
 KW human; PRO; immune related disease; inflammatory immune response;
 KW immune response stimulation; antiallergic; antianemic; antiarthritic;
 KW antidiabetic; antidiabetic; antiinflammatory; antiproliferative;
 KW antineumatic; antihypertoid; CNS; dermatological; gastrointestinal;
 KW haemostatic; hepatotropic; immunostimulant; immunosuppressive; muscular;
 KW nephrotropic; neuroprotective; osteopathic; respiratory; vasotropic;
 KW virucide; gene therapy.
 XX
 OS Homo sapiens.
 XX
 PN WO2004039956-A2.
 XX
 PD 13-MAY-2004.
 XX
 PP 28-OCT-2003; 2003WO-US034381.
 XX
 PR 29-OCT-2002; 2002US-0422472P.
 XX
 PA (GETH) GENENTECH INC.
 XX
 PI Aggarwal S, Clark H, Gurney AL, Schoenfeld J, Williams PM;
 PI Wood WI, Wu TD;
 XX
 DR WP1: 2004-376182/35.
 DR N-PSDB; ADP56447.

XX
 PT New PRO polynucleotides and polypeptides, useful in useful in diagnosing
 PT and treating an immune related disease, e.g. systemic lupus
 PT erythematosus, rheumatoid arthritis, diabetes mellitus or asthma and in
 PT stimulating an immune response.
 XX
 PS Claim 1; SEQ ID NO 2424; 3009pp; English.
 XX
 CC The present invention describes an isolated PRO nucleic acid (1). Also
 CC described: (1) a vector comprising (1); (2) a host cell comprising the
 CC vector of (1); (3) a process for producing a PRO polypeptides; (4) an
 CC isolated PRO polypeptide; (5) a chimeric molecule comprising the
 CC polypeptide of (4) fused to a heterologous amino acid sequence; (6) an
 CC antibody which specifically binds to a polypeptide of (4); (7) a
 CC composition of matter comprising a polypeptide of (4), an agonist or
 CC antagonist of the polypeptide or an antibody that binds to the
 CC polypeptide in combination with a carrier; (8) an article of manufacture
 CC comprising a container, a label on the container and a composition of
 CC matter of (7); (9) a method of treating an immune related disease in a
 CC mammal; (10) a method for determining the presence of a PRO polypeptide
 CC in a sample suspected of having the polypeptide; (11) a method of
 CC diagnosing an immune related disease or an inflammatory immune response
 CC in mammal; (12) a method of identifying a compound that inhibits or
 CC mimics the activity of or expression of a gene encoding a PRO polypeptide
 CC; and (13) a method of stimulating the immune response in a mammal. The
 CC PRO sequences have antiallergic, antianemic, antiarthritic,
 CC antidiabetic, antidiabetic, antiinflammatory, antiproliferative,
 CC antineumatic, antihypertoid, CNS, dermatological, gastrointestinal,
 CC haemostatic, hepatotropic, immunostimulant, immunosuppressive, muscular,
 CC nephrotropic, neuroprotective, osteopathic, respiratory, vasotropic and
 CC virucide activities, and can be used in gene therapy. The nucleic acid
 CC (1) and the encoded polypeptides, compositions, kits and methods are
 CC useful in diagnosing and treating an immune related disease and in
 CC stimulating an immune response. The present sequence represents a human
 CC PRO protein from the present invention.
 XX
 SQ Sequence 89 AA;
 QY 1 ACGV 4
 DB 62 ACGV 65
 Query Match 100.0%; Score 19; DB 8; Length 89;
 Best Local Similarity 100.0%; Pred. No. 3.8e+03; Indels 0; Gaps 0;
 Matches 4; Conservative 0; Mismatches 0;
 RESULT 246
 AAU14672
 ID AAU14672 standard; protein; 91 AA.
 XX
 AC AAU14672;
 XX
 DT 24-OCT-2001 (first entry)
 XX
 DE Novel bone marrow polypeptide #71.
 XX
 KW Bone marrow; diagnostic; therapeutic; gene therapy; antigenic;
 KW haematopoiesis; myeloid; lymph cell disorder; tissue regeneration;
 KW wound healing; nutritional supplement; immune disorder;
 KW severe combined immunodeficiency; SCID.
 XX
 OS Homo sapiens.
 XX
 PN WO200157187-A2.
 XX
 PD 09-AUG-2001.
 XX
 PP 05-FEB-2001; 2001WO-US003782.
 XX
 PR 03-FEB-2000; 2000US-00496914.
 PR 20-JUN-2000; 2000US-00598075.
 PR 19-JUL-2000; 2000US-00620325.

PR 30-NOV-2000; 2000US-0250683P.
 XX
 PA (HYSE-) HYSEQ INC.
 XX
 PI Ford JE, Boyle BJ, Tang YT, Liu C, Asundi V, Zhou P, Xue AJ;
 PI Ren F, Drmanac RT;
 XX
 DR WPI; 2001-48875/53.
 DR N-PSDB; AAS22977.
 XX
 PT Nucleic acids encoding bone marrow polypeptides, useful in diagnostic and
 PT gene therapy.
 XX
 PS Claim 10; Page 245; 392pp; English.
 XX
 CC AAU14602-AAU14794 represent novel bone marrow polypeptides of the
 CC invention. The proteins and corresponding coding sequences may be used in
 CC the prevention, diagnosis and treatment of diseases associated with
 CC inappropriate bone marrow polypeptide expression. For example, to treat
 CC disorders associated with decreased expression by rectifying mutations or
 CC deletions in a patient's genome that affect the activity of the
 CC polypeptides by expressing inactive proteins or to supplement the
 CC patient's own production of the polypeptides. Additionally, the nucleic
 CC acids may be used to produce the polypeptides, by inserting the nucleic
 CC acids into a host cell and culturing the cell to express the protein. The
 CC nucleic acid and its complementary sequences may also be used as DNA
 CC probes in diagnostic assays to detect and quantitate the presence of
 CC similar nucleic acid sequences in samples, and therefore which patients
 CC may be in need of restorative therapy. The proteins may also be used as
 CC antigens in the production of antibodies against bone marrow proteins and
 CC in assays to identify modulators of their expression and activity. The
 CC anti-bone marrow protein antibodies and antagonists may also be used to
 CC down regulate expression and activity. The antibodies may also be used as
 CC diagnostic agents for detecting the presence of the protein in samples
 CC (e.g. by enzyme linked immunosorbent assay (ELISA)). The proteins may be
 CC used to regulate haematopoietic activity, and consequently in the
 CC treatment of myeloid or lymphoid cell disorders; in tissue regeneration,
 CC such as wound healing; as a nutritional supplement; and in treatment of
 CC immune disorders such as severe combined immunodeficiency (SCID)
 XX
 SQ Sequence 91 AA;
 XX
 QY 1 ACGV 4
 Db 9 ACGV 12
 XX
 Query Match 100.0%; Score 19; DB 4; Length 91;
 Best Local Similarity 100.0%; Pred. No. 3.9e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 247
 ABG04651
 ID ABG04651 standard; protein; 91 AA.
 XX
 AC ABG04651;
 XX
 DT 13-FEB-2002 (first entry)
 XX
 DE Novel human diagnostic protein #4642.
 XX
 KW Human; chromosome mapping; gene mapping; gene therapy; forensic;
 KW food supplement; medical imaging; diagnostic; genetic disorder.
 XX
 OS Homo sapiens.
 OS
 PN MO200175067-A2.
 XX
 PD 11-OCT-2001.
 XX
 PF 30-MAR-2001; 2001WO-US008631.
 XX
 PR 31-MAR-2000; 2000US-00540217.

PR 23-AUG-2000; 2000US-00649167.
 XX
 PA (HYSE-) HYSEQ INC.
 XX
 PI Drmanac RT, Liu C, Tang YT;
 XX
 DR WPI; 2001-639362/73.
 DR N-PSDB; AAS68838.
 XX
 PT New isolated polynucleotide and encoded polypeptides, useful in
 PT diagnostics, forensics, gene mapping, identification of mutations
 PT responsible for genetic disorders or other traits and to assess
 PT biodiversity.
 XX
 PS Claim 20; SEQ ID NO 35010; 103pp; English.
 XX
 CC The invention relates to isolated polynucleotide (I) and polypeptide (II)
 CC sequences. (I) is useful as hybridisation probes, polymerase chain
 CC reaction (PCR) primers, oligomers, and for chromosome and gene mapping,
 CC and in recombinant production of (II). The polynucleotides are also used
 CC in diagnostics as expressed sequence tags for identifying expressed
 CC genes. (I) is useful in gene therapy techniques to restore normal
 CC activity of (II) or to treat disease states involving (II). (II) is
 CC useful for generating antibodies against it, detecting or quantitating a
 CC polypeptide in tissue, as molecular weight markers and as a food
 CC supplement. (II) and its binding partners are useful in medical imaging
 CC of sites expressing (II). (I) and (II) are useful for treating disorders
 CC involving aberrant protein expression or biological activity. The
 CC polynucleotide and polynucleotide sequences have applications in
 CC diagnostics, forensics, gene mapping, identification of mutations
 CC responsible for genetic disorders or other traits to assess biodiversity
 CC and to produce other types of data and products dependent on DNA and
 CC amino acid sequences. ABG00010-ABG30377 represent novel human diagnostic
 CC amino acid sequences of the invention. Note: The sequence data for this
 CC patent did not appear in the printed specification, but was obtained in
 CC electronic format directly from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 XX
 SQ Sequence 91 AA;
 XX
 QY 1 ACGV 4
 Db 24 ACGV 27
 XX
 Query Match 100.0%; Score 19; DB 4; Length 91;
 Best Local Similarity 100.0%; Pred. No. 3.9e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 248
 ABP09720
 ID ABP09720 standard; protein; 91 AA.
 XX
 AC ABP09720;
 XX
 DT 24-JUN-2002 (first entry)
 XX
 DE Human ORFX protein sequence SEQ ID NO:19422.
 XX
 KW Human; open reading frame; ORFX; gene therapy; cancer; cirrhosis;
 KW hyperproliferative disorder; psoriasis; benign tumour; haemorrhage;
 KW degenerative disorder; osteoarthritis; neurodegenerative disorder;
 KW cardiovascular diseases; diabetes mellitus; systemic lupus erythematosus;
 KW hypertension; hypothyroidism; cholesterol ester storage disease;
 KW immune deficiency; immune disorder; infectious disease;
 KW autoimmune disorder; rheumatoid arthritis; autoimmune thyroiditis;
 KW myasthenia gravis.
 XX
 OS Homo sapiens.
 OS
 PN MO200192523-A2.
 XX
 PD 06-DEC-2001.

XX 29-MAY-2001; 2001WO-US010836.
 PF 30-MAY-2000; 2000US-0206132P.
 PR 29-AUG-2000; 2000US-0228716P.
 XX (CURA-) CURAGEN CORP.
 PA Shimkets RA, Leach MD;
 PI WPI; 2002-106308/14.
 DR N-PSDB; ABN25472.
 XX Novel human polypeptides and polynucleotides useful for diagnosing,
 PT preventing and treating cardiovascular disease, neurodegenerative,
 PT hyperproliferative disorders and autoimmune disorders.
 PS Disclosure; SEQ ID NO 19422; 1037bp; English.

XX The present invention describes substantially purified human proteins
 CC (referred to as open reading frame, ORFX, where X is 1-11491 (see Table 1
 CC in the specification). ABN15762 to ABN27252 encode the human ORFX
 CC proteins given in ABP00010 to ABP11500. ORFX proteins are useful for
 CC treating or preventing a pathology associated with an ORFX-associated
 CC disorder in humans, and in the manufacture of a medicament for treating a
 CC syndrome associated with ORFX-associated disorder. ORFX polynucleotide
 CC sequences can be used in gene therapy. ORFX sequences can be used in the
 CC treatment of cancer, hyperproliferative disorders, cirrhosis of liver,
 CC psoriasis, benign tumours, keloid, degenerative disorders, haemorrhage,
 CC osteoarthritis, neurodegenerative disorders, disorders related to organ
 CC transplantation, cardiovascular diseases, diabetes mellitus, systemic
 CC lupus erythematosus, hypertension, hypothyroidism, cholesterol ester
 CC storage disease, various immune deficiencies and disorders, infectious
 CC diseases, autoimmune disorders such as multiple sclerosis, rheumatoid
 CC arthritis, autoimmune thyroiditis, myasthenia gravis, graft-versus-host
 CC disease and autoimmune inflammatory eye disease. ORFX proteins are also
 CC useful for treating burns, incisions, ulcers, for treating osteoporosis,
 CC bone degenerative disorders, or periodontal disease, and for gut
 CC protection or regeneration and treatment of lung or liver fibrosis,
 CC reperfusion injury in various tissues and conditions resulting from
 CC systemic cytokine damage. N.B. The sequence data for this patent did not
 CC form part of the printed specification, but was obtained in electronic
 CC format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
 XX

SQ Sequence 91 AA;
 Query Match 100.0%; Score 19; DB 5; Length 91;
 Best Local Similarity 100.0%; Pred. No. 3.9e+03; Indels 0; Gaps 0;
 Matches 4; Conservative 0; Mismatches 0;

QY 1 AOGV 4
 Db 10 AOGV 13

RESULT 249
 ID ABP11499 standard; protein; 91 AA.
 XX
 AC ABP11499;
 XX
 DT 24-JUN-2002 (first entry)
 XX
 DE Human ORFX protein sequence SEQ ID NO:22980.
 XX
 AC Human, open reading frame; ORFX; gene therapy; cancer; cirrhosis;
 KW hyperproliferative disorder; psoriasis; benign tumour; haemorrhage;
 KW degenerative disorder; osteoarthritis; neurodegenerative disorder;
 KW cardiovascular disease; diabetes mellitus; systemic lupus erythematosus;
 KW hyperextension; hypothyroidism; cholesterol ester storage disease;
 KW immune deficiency; immune disorder; infectious disease;
 KW autoimmune disorder; rheumatoid arthritis; autoimmune thyroiditis;
 KW myasthenia gravis.

XX Homo sapiens.
 OS
 XX WO200192523-A2.
 PN
 XX 06-DEC-2001.
 PD
 XX 29-MAY-2001; 2001WO-US010836.
 PF
 XX 30-MAY-2000; 2000US-0206132P.
 PR 29-AUG-2000; 2000US-0228716P.
 XX (CURA-) CURAGEN CORP.
 PA Shimkets RA, Leach MD;
 PI WPI; 2002-106308/14.
 DR N-PSDB; ABN27251.
 XX Novel human polypeptides and polynucleotides useful for diagnosing,
 PT preventing and treating cardiovascular disease, neurodegenerative,
 PT hyperproliferative disorders and autoimmune disorders.
 PS Disclosure; SEQ ID NO 22980; 1037bp; English.

XX The present invention describes substantially purified human proteins
 CC (referred to as open reading frame, ORFX, where X is 1-11491 (see Table 1
 CC in the specification). ABN15762 to ABN27252 encode the human ORFX
 CC proteins given in ABP00010 to ABP11500. ORFX proteins are useful for
 CC treating or preventing a pathology associated with an ORFX-associated
 CC disorder in humans, and in the manufacture of a medicament for treating a
 CC syndrome associated with ORFX-associated disorder. ORFX polynucleotide
 CC sequences can be used in gene therapy. ORFX sequences can be used in the
 CC treatment of cancer, hyperproliferative disorders, cirrhosis of liver,
 CC psoriasis, benign tumours, keloid, degenerative disorders, haemorrhage,
 CC osteoarthritis, neurodegenerative disorders, disorders related to organ
 CC transplantation, cardiovascular diseases, diabetes mellitus, systemic
 CC lupus erythematosus, hypertension, hypothyroidism, cholesterol ester
 CC storage disease, various immune deficiencies and disorders, infectious
 CC diseases, autoimmune disorders such as multiple sclerosis, rheumatoid
 CC arthritis, autoimmune thyroiditis, myasthenia gravis, graft-versus-host
 CC disease and autoimmune inflammatory eye disease. ORFX proteins are also
 CC useful for treating burns, incisions, ulcers, for treating osteoporosis,
 CC bone degenerative disorders, or periodontal disease, and for gut
 CC protection or regeneration and treatment of lung or liver fibrosis,
 CC reperfusion injury in various tissues and conditions resulting from
 CC systemic cytokine damage. N.B. The sequence data for this patent did not
 CC form part of the printed specification, but was obtained in electronic
 CC format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
 XX

SQ Sequence 91 AA;
 Query Match 100.0%; Score 19; DB 5; Length 91;
 Best Local Similarity 100.0%; Pred. No. 3.9e+03; Indels 0; Gaps 0;
 Matches 4; Conservative 0; Mismatches 0;

QY 1 AOGV 4
 Db 16 AOGV 19

RESULT 250
 ID ABP79711 standard; protein; 92 AA.
 XX
 AC ABP79711;
 XX
 DT 07-MAR-2003 (first entry)
 XX
 DE N. gonorrhoeae amino acid sequence SEQ ID 5952.
 KW Antibacterial; infection; vaccine; gene therapy.

OS Neisseria gonorrhoeae.
 XX
 PN W0200279243-A2.
 XX
 PD 10-OCT-2002.
 XX
 PF 12-FEB-2002; 2002WO-1B002069.
 XX
 PR 12-FEB-2001; 2001GB-00003424.
 XX
 PA (CHIR-) CHIRON SPA.
 XX
 PI Fontana MR, Pizsa M, Maignani V, Monaci E;
 XX
 DR WPI: 2003-058415/05.
 DR N-PSDB; ABZ40681.
 XX
 PT New protein from Neisseria gonorrhoeae, useful for the manufacture of a
 PT medicament for treating or preventing N. gonorrhoeae infection.
 XX
 PS Disclosure; Page 622; 815pp; English.
 XX
 CC The present invention relates to proteins from Neisseria gonorrhoeae.
 CC Also disclosed are the nucleic acid molecules encoding the proteins and
 CC antibodies that specifically bind to the proteins. The composition
 CC comprising the protein, nucleic acid or antibody is useful for the
 CC manufacture of a medicament for treating or preventing N. gonorrhoeae
 CC infection, this may be in the form of a vaccine or gene therapy.
 CC Sequences given in records ABP76736-ABP81046 represent nucleic acid
 CC molecules of the invention
 XX
 SQ Sequence 92 AA;
 Query Match 100.0%; Score 19; DB 6; Length 92;
 Best Local Similarity 100.0%; Pred. No. 3.9e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 ACGV 4
 Db 49 ACGV 52

Search completed: February 21, 2006, 09:02:39
 Job time : 156 secs